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102160 28005660

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HCEGY33	393	753258	1 - 2820	15 - 2834	AW963205, BF917453, BE612506, BE731477, AW451370, AW590085, AW880898, BE719911, AI247379, AW130783, BG008769, AA586964, AA661730, BF873263, BF839698, AA004314, AI284019, AA005185, AI814296, AI167258, AA291625, T49401, BF858728, AW401819, AA464255, AA464366, AA291884, AI671218, BG253747, AA972019, AA064655, AI952828, AW085950, AA936070, AI962679, BF992732, BE720046, AA344667, AW848218, AA064696, AW418763, AI200859, BE836273, BF871596, BE409996, AI700087, BF900628, AW196489, AV716506, AL524561, AW945539, BF347269, AW959837, AV734888, BF037819, BF526883, AI567290, BG110768, R81679, AA592992, BF925395, AA554697, BE879516, AI200928, BF766846, AW117882, BE966968, R13577, R18714, AW089457, AF068706, AB015318, AF068707, Z98036, I32738, AP001623, AC007748, AC006994, AP001746, AC006501, AK024978, AC007907, AC004383, AL354776, AC002471, AC005374, AL031984, AC007383, AP000697, AC004883, AC004213, AL035587, AF307337, AC006039, AC023880, AP001726, AL136984, AL022721, AC005094, AC007597, AC011484, Z82206, AL357497, AC009721, AC004987, AL035458, AL138976, AL049557, AC012502, AL136137, AL031732, AC004837, AC006197, AL163282, AL137479, AL133325, AC005291, AF095901, AC006222, A57389, AC016816, AL133353, AC007172, AP000030, AK027260, AL137716, AF130054, AC016652, AC022402, AL121585, AC010202, AC004690, AL121952, AC010605, AC005091, AP000130, AP000208, AC004971, AL031346, AP001346, AC005224, AP000247, AK025573, AL137495, AC008812, AP001731, AC002472, AC069298, AC009953, AC005156, AC005488, AL163152, U62317, AL136979, AL138688, AC005280, AL080060, AC024247, AC004686, AL355365, AL161757, AF168787, AC005815, AL355103, AC007458, AC009087, AL359620, AP000211, AC017015, AL159988, AL121997, AF042090, AL031281, AL157433, AP000020, AC020956, AL035413, AL136170, AC018639, AL139099, AC005231, AC004878, AL031274, AC006451, AL135999, AL135999, and AC012505.

HCEHW24	394	560610	1 - 1366	15 - 1380	AA847499, T11828, AW062724, AC005324, AL391839, AC003010, AC004263, AL133246, AL035249, AX039602, AF207550, AC020954, AC003070, AC007041, AF168787, AL035587, Z97056, AC006023, AL136137, AC007566, AC004840, AC005081, AC007787, AC010328, AC002477, AL162615, AC027319, AC004846, Z85987, AC009509, AL135960, AJ131016, AP001753, AF001549, AL133153, AC006088, AC006211, AC005015, AC004491, AC004089, AL031311, AC005175, AC068799, AL138976, AF067844, AL078581, AC007850, AL021939, AL136179, AL121891, AL135749, AL133448, AC007957, AC020663, AL353807, AC005800, AC010458, AC002504, AC008115, AC000118, AC010463, AX008040, AL008730, AC018662, AF031078, AL109823, AF224669, Z95114, AF030876, AC011475, AC018663, AC008764, AC011500, AL445490, AC010432, AL031588, U52111, Z97196, AP000356, Z93023, AL356280, Z83826, AC020956, AC008812, AC084732, AC005057, AF003627, AC011455, AC022407, AC004605, AC004913, AL031282, AL022326, AP000556, AC005190, AL445483, AP001694, U62293, AC020913, AL109935, AC007565, AL354696, AC005041, AL009181, AC005330, AL078638, AF111168, AC004824, AC012202, AC012202, AC012202, AC025019, and AC025019.
HCEJL08	395	722208	1 - 1126	15 - 1140	AL527480, AL527481, AL521426, AI355489, AI936077, AW162159, AI992024, AI992035, AW009318, BE621575, AW513731, AI097445, AA830280, AA041521, AI929787, AW161814, AA782569, AA039877, AW628361, AA563799, BF115455, AA805462, AI768995, AI452741, AI015937, BF686820, AA640384, BG032238, AA747424, AI089546, R54817, BF437102, AI349097, W42741, BE867543, AA568556, AA548299, BE835642, Z25286, BE621161, BF125624, AA650054, AA464991, Z41547, AW951412, AA455272, AI760259, BF345425, W42831, AW161356, BE784283, AA583980, R46273, AW160612, AA459546, BF112102, AI909781, U52112, and X92475.
HCEJP93	396	637533	1 - 1291	15 - 1305	AI074464, AI656404, AI796524, AA806550, AI090821, AW300816, AW262224, N51251, AL042559, W69456, AW444788, AI097178, W69540, N27878, AI285226, AW964028, N21047, AA563599, AW965979, AI262376, AI264510, H29498, AA457464, AV657126, AI335865, AI686402, H29497, BF513275, AA363401, BE163821, AA377712, AW021614, T60994, R86154, AI056889, AA626081, AA862613, AI394148, AI127181, AA677656, AW135256, R91922, AL137269,

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HCELB04	397	847375	1 - 1948	15 - 1962	BF348160, BE382625, BF530813, BF338436, AV723661, BG027810, AI479999, AI951971, AI955335, AI955123, AW956874, BF725228, AI497764, BG054845, AA189083, AI613257, AW952819, AA653557, AI199188, AI193968, AI140992, AA782167, BE394876, AI445072, AA025786, R87257, AW006031, AA706472, BE702975, AI969168, AA723849, AI754329, AI202756, R86700, AA961048, AI150885, BF949269, AW191855, BF923546, AI969180, AA984342, AA325050, AW297321, W21902, AI815443, AW959974, BF951546, AA776848, R40218, AV721307, H20500, R86699, AA862473, H22648, AI423637, AA862422, W24198, AI097422, C15985, M78789, AA025946, AI214421, AI887133, R16294, BF530231, BF593846, AA757461, C14721, N79048, BF527141, H49989, R87284, AA340225, AW594091, AA191185, BF345519, H20588, R84721, R87537, AI468081, H52033, R89691, T08476, R84555, AA351651, BF061055, AW352208, AA923106, AA916155, BF529914, H50032, BF348659, BF839381, BF363000, BF948630, AA716280, H50278, AI907774, BF530634, AW904900, AW904916, BE702676, AV721824, BF345386, BF525613, BE703759, BF945244, BF839385, H51935, AI951900, AW163765, AA348775, BF347514, AJ243653, AB040056, AL049829, AJ243122, AB012808, AL049829, and AL049829.
HCEMA08	398	846468	1 - 1866	15 - 1880	AU117578, BE747272, BF975570, BF982819, BE791051, BE740691, AL534023, BF663926, BE779854, BF568722, BF967781, AL534024, BE258824, BE253195, BE888979, BE883871, BE252033, BE778582, AV751824, BE868436, BF683473, BG036978, BE263408, BF307358, AI804750, BE392981, BE779716, BE298007, AU145608, AI146343, BG000903, AW027129, BF971699, BF973051, AU144804, AI813831, AU144372, AI690884, BE395342, BE786397, AI090031, AW268818, BE857063, BF237544, BF237818, AA478533, AL531481, BE296783, AI378303, BF894721, AA594858, AU159188, BE256127, AA147836, BG054746, AW249985, BF973936, AA478532, AW029434, AW080150, AI340193, AI720024, AI217899, AI457563, BF753083, AW003638, AA722532, AV702271, BF683480, AW327927, AI720741, AI052193, AW152636, AI452498, AA252800, BE279835, AA772707, AA315596, W86492, AI086888, AI360383, AI470090, BE895081, F25095, AW517403, BE268236, AA927369, W45522, AA779833, BG026493, AA603343,

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HCENN67	399	563013	1 - 864	15 - 878	AU145402, H17256, AI341067, AW294404, BF593070, R45451, AA348746, AA324600, Z40844, AW295349, AC010285, AK021734, AC010285, AC010285, AC010285, AC010313, AC010313, AC010313, AC008393, and AC008393.
HCENQ22	400	740746	1 - 2306	15 - 2320	AW962038, AA324687, BE781669, BF690906, N40739, AA460569, BE904974, BF851236, BE567327, BE567085, AV714149, AA325155, BF694328, AL529245, BE879682, BF211500, BF103549, BE565626, BE886046, BF211073, BF184621, BF669008, W47186, BF668915, BF574941, BF530881, BF239234, BF212797, BF672085, BE865942, BE565391, BF693944, BF027765, BF208449, W37976, BF208334, BF217631, BF851329, BF029660, BF208304, BF028978, BF240004, AA173470, AA304600, BF758968, BF677397, BF754702, BF754843, AW934764, BF695321, AW605000, AA026906, BF696911, BE926436, AI358712, AI310670, AI349130, AW964149, AA378474, AA878407, AI445373, AI284543, AA365980, BE064625, AL039761, BF884277, AW069227,



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HCEOF01	401	564906	1 - 1655	15 - 1669	AV726134, AA325229, BF977071, AA778962, N70449, AC034194, AF001549, AL133163, AC002470, AC011465, AC007055, AL138836, Z93015, AC004706, AC004859, AL355103, AC004983, AL354696, AC005015, AC009509, AC010180, AL109806, AL353807, AL049712, AC009470, AC004938, AL136418, and AC026531.
HCEOF01	402	850521	1 - 1654	15 - 1668	AV726134, AA325229, BF977071, AA778962, N70449, AC034194, AF001549, AL133163, AC002470, AC011465, AC007055, AL138836, Z93015, AC004706, AC004859, AL355103, AC004983, AL354696, AC005015, AC009509, AC010180, AL109806, AL353807, AL049712, AC009470, AC004938, AL136418, and AL049870.
HCEON94	403	564499	1 - 1663	15 - 1677	BE742775, AL044019, AW952366, AW340380, AA480854, AW298704, AW418740, R41364, AW262876, AI023107, AW055272, AW297615, AI204661, AA766698, W94660, W95988, AI499394, AA741198, AA505067, AA505069, AA708430, AA747662, AI431749, AA262201,

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HCEOQ67	404	847376	1 - 978	15 - 992	BF924585, AA599588, BE551908, AI928667, AW072118, M62123, BF732440, AI695915, AW103699, AA587443, AA838643, AI568575, AI719748, AI383025, AW015272, AI671213, AI743346, AI016931, BG120492, AI453087, AI031615, AI453117, AI475936, BE205855, BF060775, BG256207, AW410122, AW467727, AI560788, BF688224, N81142, W81199, AA993521, AW467734, AI093103, W47384, AA931596, AU153140, AU151575, AI924504, BE019156, AI434053, AI825423, AI961070, AI341081, W95376, AA923443, AI985976, AA461327, AI359697, W02798, AW304384, AI146961, AW044594, AU150880, AI633812, AA502297, AW337670, W02155, AA078409, AI458249, AA922965, W86008, AA627613, AA903555, AI621100, AI928669, AW025677, AI864978, BF059111, BG057003, AI364353, AI500694, AW196325, AI814950, AW470573, AI001102, AI085505, AW439650, BG152409, AI682728, AI087087, AI656126, AW594745, AI283991, AW016765, AI950808, AA564373, AI208904, AI568845, AI081938, BF059185, AI088922, AW771707, BF194723, BF434688, AA728777, AI218944, AI223266, AA927034, BF588496, W68528, BE207810, AI141855, BE206671, AI150235, BE208344, AW055162, AI090054, AI937569, BE207928, AA040756, AW006227, AI656603, AW196605, AI341863, AI568493, BF477495, AI961854, BF058272, W70220, AA157956, AW268529, AI401541, AW515364, BF062948, AI493672, AI627739, AI500381, AI566221, AI369291, AI924761, AU153556, AI375605, AI339462, AU152928, BF940692, AU153049, AA554629, AU151821, AU150768, AU153492, AU145184, AA479921, AU150777, AW168964, AI362260, AA677779, AA450215, BE300843, BF223056, AA908886, BF969514, AI336276, AI187107, AI654701, AI857647, AI885355, AI933222, AW300302, AI857443, AI922508, AW150618, AI650618, AI887035, AI950232, AI885669, AI968376, AW466335, AI880115,

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HCEOV48	405	850681	1 - 2136	15 - 2150	AL514028, AL514027, BE394233, BF309286, AI937145, BF341063, AW007832, BF996163, BE090095, BF056466, BE855995, BF995041, AW300812, BF516522, BF750858, AI982559, BF341846, BF057637, BF446278, AW664488, BF750864, N70144, AI026694, AL042399, BF062178, AL042400, AI189816, AA325825, AI824290, AI125510, BF229962, AI560393, AI206451, BF939187, BF062533, N62429, AI203493, T48622, AW196328, BF091634, BE856501, T35041, BF091588, AI204132, AI024408, BF431830, Z39476, BF991680, R33737, AA367854, AL537669, AI198470, BF920850, R78066, T19189, T53308, T40614, Z43405, AI968937, T35073, R77096, R62691, AI654947, AW138553, AW241489, T53584, AW138527, T19258, R78103, AI887002, AA336184, R77732, AI589930, AI468224, R23638, BG015036, T48621, BG003031, BE327016, T53583, AA774524, AI452920, T39478, BF752954, R76920, BG013571, N98321, BG008889, BG004892, R33625, BG008197, AW059861, T53307, AI024102, BF878013, BF369604, AA338469, D45642, AI864438, BF818770, BG015443, and BE930306.
HCEPC90	406	603920	1 - 925	15 - 939	AA326082, AW795792, and AC005998.
HCEPO08	407	637543	1 - 627	15 - 641	BF685565, BE783924, BF795649, BF797231, BG255701, BF794749, BF972383, BE561381, AV701756, BG107282, BG024572, BE549221, AA627065, BE733310, BG108969, BE561690, AI080313, BE902836, AI018613, BF304765, AV705395, BE542329, BE871863, BE280103, BF310063, BF214902, BE785643, BF968623, BE788595, BE314127, BG104579, BE878379, BE787417, BE279325, BF796795, BE788379, BE394014, BG105363, BF035192, AA961761, AW165990, BE885093, BG254065, AI885563, BE275447, BG257554, BF795853, BF205012, AA988312, BF132360, BE274628, BE539632, BE617383, BE736770, BF965517, BF691529, BE547772, AA631032, AA602294, AI609105, BF972384, BE545190, BE395094, BE616187, BG117041, AW512920, AI719468, BF984424, AA908356, AA402377, AI829837, BF663878, BE881705, AI889414, BG253900, BG251311, AA629021, AI986258, BG029929, BE538992, AA572842, BE264730, BE547568, BE884722, AW406082, AA186941, BE385140, BF307769, BE389930, BE787241, AI015410, N58347, AI075354, BE619008, BF309970, AW182898, AA845648, BE900505, BF665710, BE300040, BE277825, BF340887,

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HCEB03	408	812940	1 - 869	15 - 883	<p>BF849846, AA618621, AU121250, AA343606, AV756290, AL118520, AC005231, AC018720, AL035422, AC002044, AL096767, AL080243, AL353701, and AF196779.</p>
HCEB44	409	584776	1 - 1336	15 - 1350	<p>AV707938, BE503286, AI857703, AI085937, BF438032, AI953799, AW241829, BF447799, AI978965, AW166960, AI760157, AI924350, AI810971, AA994101, AA827889, AI091616, AI333056, AI373582, AA679949, AI370856, AW274961, AI467794, AI708570,</p>

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HCETE08	410	731957	1 - 2527	15 - 2541	U55983, AI954656, BF665090, AW903271, BF669966, R52418, T80579, R55282, AW960629, R38876, AA335583, AI572697, R34439, D59517, H44210, H46413, R55283, R48973, D59516, AA336116, H44211, AC006211, U67137, AC006211, AC006211, AC006211, AC037483, AC037483, AC037483, AP001495, and AP001495.
HCETL19	411	702090	1 - 633	15 - 647	AI091683, BF727420, AA985070, BF340632, AA427714, AA069839, AV723640, BF963599, AA363895, AV722994, AA808909, AA461161, AA373636, AA708272, AW504640, T49723, BE676520, AI741024, AA465600, R93909, AA507926, AI079211, BE160639, BE064019, BE160666, R57401, AI371162, AL041488, AA772777, AI814562, AA609811, AW167442, H89972, AA465244, AA609804, AI031714, BE855522, AW997706, BE221572, AI791716, AI791854, AI821623, AW880928, AW997710, AI568377, AI356504, AA504793, AA983155, BE160661, BF928366, AA364639, BE168258, AA633422, AI751587, AA452503, BE083045, BE083046, AU147446, AI565122, AW410028, BF939721, BF830473, BE537605, AW997713, N26300, BE160640, AL527697, AW562332, BE562112, BF796239, BF947338, AV649278, AI951746, AA262431, AW880945, AI762794, AA740152, AU123401, AA158019, BE149833, BE349054, AW896057, AW896063, T05702, BE181514, N24969, AA730994, AI760380, BE784550, AW664234, H91949, BF763561, AI792459, AI792502, BF762390, AL080024, BE857554, R34101, BE064136, AI254995, AA720651, AW817786, AA866062, AW862790, BF881974, BF881979, BF881908, AI094842, H80803, AI025243, AW844592, AV764658, AA493196, AA808903, W84646, W95312, BE247667, BF881967, AW835723, BF940089, BF947438, R77370, AA490126, AI122688, AV739570, AW835647, AW867488, BE160656, BG112383, BE006309, BG260934, BF684251, BE077861, BE778292, AA320090, BF684025, BF874621, AW855010, H77950, BF685956, H66830, BE542196, BE146637, BF955461, AA069789, BE671477, AA714126, BE160608, AL096840, U80459, AC005837, AL158141, AL355392,

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HCEWD90	412	771629	1 - 1189	15 - 1203	BG109308, BE541492, BF435034, BE551413, AW014755, AW410604, AI829941, AW612659, AI338035, AW015060, AA858275, BG166761, AW195926, AA918404, BE673184, AW263625, AA975221, AA045183, AI309994, AI338145, AA706998, AW572221, AI298073, AA045545, AW085640, AW242570, AA045348, AW295083, BE220210, N95565, AI989731, AI825860, BF347431, AW271754, N58893, N95457, AA905631, BE669667, R68876, AW085114, AI910563, W25196, AW197805, BE799348, AI696516, AW951958, R82976, AA302718, BE513245, AI586985, H90393, H90444, AA316015, AI796963, R68779, T10712, AI243987, AI687514, AA056939, BF769731, AW170418, AL133646, AL117510, AB033095, AL121907, AF205780, AF205779, AF205778, AL121907, AL121907, AL121907, AL353658, AL353658, AL353658, AL353715, AL353715, and AL353715.
HCEWE62	413	692350	1 - 1547	15 - 1561	AA069447, BF930342, AA069484, AV702147, and AC002525.
HCEZW14	414	745401	1 - 2057	15 - 2071	AV647377, AV647331, BF223007, BF833783, BF925613, BF833785, H71242, AA677934, AI080992, W22152, AV646033, F23202, AA320693, T79025, BF359824, BF359815, AV646032, BF874443, and AW880874.
HCFAT42	415	815652	1 - 976	15 - 990	AV708704, AV656283, BE875916, AV716281, AV705637, BE877525, AA715811, BE880735, AL048390, AV703501, AL120007, AV703762, AV728391, AA594970, AV727032, AA548245, AV701468, BE895614, AL525022, AI557258, AA113852, AI254237, AA548842, AA593688, AA582965, AV712494, AA192940, AA081113, AA579760, AV703229, AV702794, AI133013, AI285534, AA578519, AA182864, AA576543, BE877173, AA595314, AA156029, AA180754, AA576122, AA489339, AA581699, AA192909, AA197304, AV713558, AV757599, AV660440, AA194621, AA583435, AV716470, AA196541, AV703819, AA598446, AA643267, AA578591, AA639334, BE875280, AA164582, AA085824, AA575830, AA583266, AV653962, AA548197, AA195996, AA563780, AA583348, AV703494, AI285364, AA180287, AA526496, AI110815, AA196392, AI566162, AV727881, BE877389, AA554729,



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HCFAT66	416	821337	1 - 1766	15 - 1780	AI923052, AW973992, AW976024, AA579179, AW237905, AI733856, AW513870, AI963720, AV760508, BF691714, AW270385, AL079734, AW505253, AA524616, BE139267, AV759518, AA533025, AW575605, AV763550, AA410788, T74524, BE395467, AI669589, AW974932, AA502991, AW438542, AI590485, AW023975, AV760453, AV655282, AW021583, AV743462, AW958962, AV710066, AI926728, AI636734, AI625604, BF916934, AA714288, AW303008, AI801482, AA584484, BE062159, AV695478, AL038842, F23264, AA669155, AA847499, AV760915, AU147162, AW328202, AW327624, AW963663, AW514662, AI349849, AA492584, AU131037, BE178489, BE155951, AV757289, AI891080, AL079335, AC006511, AL022323, AC004000, AC008267, AC004655, AC020906, AC004106, AC002072, AL022320, AL049569, AL049776, AF038458, AF196972, AL024498, Z82194, AC008641, AC002287, M89651, AC005880, AC002115, AC007881, AC005666, AL049537, AP001727, AC011495, AC007425, AC004771, AP000008, AC011445, AL022315, AP000704, AC004967, AL139100, AC007193, AP001713, AC020754, AL050338, AC005887, AC009600, AC011465, AL133286, AC004811, U95743, Z82215, AC005566, AC008569, AL049856, AC002116, AC011479, AC007051, Z94056, AC005920, AC005081, AC005529, AC002316, AL031295, AC005921, AP000102, AC022401, AC006530, AF064861, AL034423, AC008264, AC004156, Z97632, AL118501, AL355392, AL031297, AP000076, U89335, AL034420, AC007055, AC011811, AC007919, AC004914, AC005736, AL024474, AP001718, AL136228, AP001671, AC011469, AL078581, AC003663, AC004181, AC004216, AC005052, AC011490, AC003971, AC006552, AJ277546, AC027644, AC020956, AC002302, AL136418, AC004840, AC083871, U47924, AC021999, AL121920, AC006449, AC004877, AC005519, AC000159, AC008395, AL163279, AC004020, AC005200, U91323, AL109797, AC006011, AC007450, AC005098, AL137073,

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HCFBA30	417	608166	1 - 855	15 - 869	AW081859, AW872961, AI811057, AI672829, AI393974, AA679666, AW674141, AA864672, AI038289, AA918147, AI971831, AI926317, AA835057, AV727374, AI694785, AI871609, AI694794, AA286712, AA970458, AW139325, AI457312, Z39719, AI750611, AI700866, AA764903, AB014608, AP000345, AC000394, AC021068, Z94162, AL133375, AL133375, AL133375, AC026532, AC026532, and AC026532.
HCFBM77	418	604576	1 - 915	15 - 929	BG249643, AI334443, AV762098, AL138455, AI284640, AV762959, AV764228, AL046409, BF677892, AV764530, BF697673, AL037683, AW407578, AV710066, AL044940, AI061313, AW265385, AV757425, AV763670, AV762064, AV755677, AI064864, BF816072, AA720702, AW963542, AV762397, AI754253, BE160727, AI267818, AA579179, BF680041, AV733830, AI270117, AA665330, BF676981, BF679256, BE154495, AW965008, AI307201, BE277210, AL042753, AV761489, AV729813, BE672637,

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HCFBV39	419	830525	1 - 1745	15 - 1759	BE738566, AV700721, BE622741, AV716930, BG260189, BG028265, BG108609, AI765410, BE545855, AI309976, AI905481, AW505445, AI654172, AI765422, BE737577, AI935100, AA744381, AW080284, AI377003, AW021443, AW117289, AA633528, BF129924, AW300601, BE301232, AA806565, BF575424, AA573342, AI918765, AA147881, AW051839, AW571594, AI491714, BF819042, BF245930, AA714223, AI650790, AA505121, AW025829, AI246597, AI823422, AI377950, AA916612, AI378103, BE931951,

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HCFCB72	420	824165	1 - 1704	15 - 1718	<p>AI733856, AA535216, BE062476, BE062478, AI050076, AW023111, AV762633, AW500029, AW974932, AW970877, AW271904, AA720732, AU152561, AW237905, AV760915, AW274191, AA169245, AA493808, AI141130, AV762033, AI583466, AA935409, AI306232, AV764259, AA601278, AW970958, AV760508, BF832074, AL079734, BF589824, BE140949, BF527070, AL135377, BF589788, BE245338, BF725884, BF526964, AW833901, AA524616, BG222875, AI884383, AW968188, AL046519, BF854308, AI049630, AW190505, AI612142, AI114557, AU143988, AW873261, AW188427, BF772474, AW975626, BF841045, BE062545, AV695478, AW805539, AW063684, AA904275, AI654285, AI469140, AW328331, AV764334, AW972919, AI017251, AA226356, AI251576, AA613624, AW068853, AW505253, AA609834, AA013168, AI634187, AA483606, AI280266, AW157456, AI583252, AA019973,</p>

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HCFCG91	421	897509	1 - 2913	15 - 2927	AU125982, AU125447, AU124785, AW001101, BG110603, BF974285, AL040867, AL040866, BF725360, BE868091, BG104583, AW090092, BG121189, AW190132, AI355864, AW889900, BE378250, AL041116, BE548940, BE256037, BF941323, AW080364, BG106299, BF034153, AI359516, AI651097, AW383973, AL524978, AW362784, BE547709, AW753817, AI148869, AI393562, AW675581, AU149111, AI367629, AU132530, AW004969, AA706610, AU154232, AU149535, AL046765, AU132763, AU154467, AW836789, AW836786, AW373589, AU154038, AI797535, AA313215, AI288449, AU148577, AA649925, AW363230, AA535371, AW836788, BE813630, AA029231, AA029232, BF887882, AA453842, BF887870, AW605323, AI421670, AL040652, BE855545, AW937579, AA233312, BE873172, BF753305, BF848580, AA514956, AA586607, AI453237, BF590559, AA227274, AA233313, AW999617, AI905503, AI683301, AA227283, BE070741, AA453758, R18421, AI911435, AW754123, BF081251, AI378143, BE070726, AI916759, C00385, BE694440, BE938121, AI911691, T09488, Z25342, BF081249, AW953485, AW072241, AI272899, AI270551, AA916908, AI200242, BE070582, AI424142, BF332451, AW580296, H91031, AW295174, BF842266, AA249047, AW857035, AW611973, AW602313, BF357733, AI910768, BE858745, BF194823, AI905504, AA005312, AI307564, BF378122, BF820885, AI818299, BE814287, BE814349, BF334589, D53211, D53071, D53128, BE814606, D53194, D53589, BF378140, AW512399, AW364841, BE825640, AW512554, AI349173, AK024705, AB002366, AK027063, AK025689, AL354661, AL354661, and AL354661.



HCFCM81	422	847378	1 - 1663	15 - 1677	AI922752, BF795250, AA747912, AW962625, AW976214, AA210739, AW499818, AI540818, AA211831, AA368850, AW294346, Z82200, AR054110, AF000545, AJ270065, AJ270066, AJ270068, AJ270071, AJ270072, AJ241092, AJ270061, AJ270062, AJ270064, AJ270067, AJ270069, AJ270073, AJ270076, AJ270077, AJ270079, AJ270080, AJ270081, AJ270086, AJ270089, AJ270075, AJ270074, AJ241023, AJ241031, AJ241044, AJ241045, AJ241055, AJ241056, AJ241057, AJ241058, AJ241059, AJ241060, AJ241076, AJ241077, AJ241078, AJ241079, AJ241080, AJ241085, AJ241087, AJ241089, AJ241090, AJ241091, AJ270090, AJ270091, AJ270092, AJ270063, AJ270070, AJ270082, AJ270084, AJ270095, and AJ241093.
HCFCW39	423	847037	1 - 1329	15 - 1343	AL515864, AL520836, BF982820, AW361551, AV709787, AA044787, AW361816, AV717763, AI066751, AV716307, AW271303, AW386243, AI962453, AI040041, AL040729, AW044292, BF445232, AI692246, AI800575, AI191409, AW370636, BF939599, AW614202, AW370601, BF509001, AA633357, AI148133, BE566643, AA451626, AA811380, AI817239, AI984665, AI142462, BE966636, AA609336, AA760754, AA806273, AA761737, BF573283, AW386263, BF510059, AA568833, AW299302, AI935515, BF689192, AA599678, AI346964, W32202, AI698071, BE246144, AA043649, AW674878, AA098943, BF132985, AA255580, AW386241, AI703351, AI081067, W27320, BF677388, BF056338, AA765235, AW391214, AI445511, AW468025, AA450390, AA255603, AI088469, AA663918, AA040631, AA167227, AI356972, AI084370, BE622691, AA209476, AA614019, AI184658, AA962304, AW044281, AA576467, AA025353, AA285129, AA781637, AA039984, BF911174, AI375319, R59874, AA772620, AA548537, BF911246, BG152849, AI918926, AW771469, AA085467, AA761919, D20127, H88293, AA577417, AW973932, AI949269, AA772611, AI570158, AI193531, AI500111, AA781325, AA187326, H88294, R76381, AA043699, AA994041, AI391515, AA994040, AA417831, AW008536, AI769416, AI355757, AA284013, AA405824, AA854495, AA740937, R76720, T27302, AI862141, AA449425, H49479, BF211923, AA971905, AI818423, Z40227, AW271326, BF970216, AL515865, AI754002, W32257, BG029124, AW591821, AW386259, AA828122, AW589632, D58189, AA405825, AA450222, AA837075, AI468374, AI537816, AL521517, AA247406, BF106404, AI051439, AW370621, AI918361, BE049280, AI914837, AA680279,

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HCFCY49	424	637537	1 - 1509	15 - 1523	AV714136, BG261256, BG253331, BF033430, BE780116, BG109104, BE888874, AV647388, BG254796, BG030555, BE889969, BE439572, AV682564, BE896074, BF701508, BE539765, BE542941, BE866067, BE613014, AW967289, BF245297, BF213521, BE884196, BF665647, AI417131, AI459458, AI685068, AI691084, BF238663, AI814058, BE856547, AW044549, BE967123, AI679334, BE042777, AI224113, AI458772, AI378764, BF977150, AI678708, AI025736, BF211618, BF130792, AW090191, AI399925, AA829652, AW264692, AI278877, AA176319, AW009613, AI224404, AI700379, AI342594, BE622231, AW274547, AI889634, AW275964, AV653081, AA565576, AI446325, AA629801, AA159322, AA829372, N50779, AA535912, AI687943, BF246145, AA160117, BF382055, AI077523, AW514075, AA018595, AA148510, AI358820, AI567806, AA026874, D56123, BE889505, N26505, BG258375, AA599820, AI808379, AI086884, BF433590, AA938244, AI631266, AI274144, AA165281, AI375537, H99326, AW182179, AI126029, BF246179, AA458603, AA602999, AI280330, AA923220, AW261876, N33307, AI911467, AI160675, AW130515, AA634015, AI865416, H49309, AI288006, AI051412, BF696496, BF061599, H18368, AA037721, AA932724, AA335871, AI263966, AA904245, AA872721, BE145420, L44424, BF216963, AA936585, R67751, AL532755, AA224582,

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HCFDD18	425	664012	1 - 1677	15 - 1691	<p>BF798046, BF343993, AI125711, AW269499, AI373099, AA203619, H09391, BE221919, AI498207, BF056950, BF928305, AW970185, AA705910, AW593041, AI671502, AA699678, AA040140, AV689124, AV691416, AV689163, H05554, AA164543, BF928462, R37434, AA040092, BF221602, AA079184, AI458886, AA716774, AV697676, AI243945, BF934919, H09331, AA917990, AW190657, H05092, AA514523, R20065, AA704852, AV697721, BF765665, AV685915, AV684800, AA668995, AI285873, H92968, AI248980, AA934353, AI240130, AA813038, N63776, W84616, F06301, H57337, BE858402, AV686994, R07487, BE003659, AI873094, AA972801, BF437414, H57333, AA079183, H57344, AW020993, BF873354, AA165085, AI526063, AW073573, F02593, R12493, AA992525, AW082521, AW612268, AV696469, AV683765, AV684875, AV683767, AW861442,</p>

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HCFLB10	426	675140	1 - 856	15 - 870	BE503824, AW206890, AU119384, BF824914, AC009946, AC046130, AC006334, AC006288, AC011235, AL008715, AC008873, AC005378, AL360178, AK021824, AC005157, AL356280, AL163267, AL162414, AC013246, AF015721, Z82198, AL135746, AC005367, AC066587, AC003658, AC011331, AF015724, AC003089, AC009093, AC009093, AC023814, AC023814, AC009130, and AC009130.
HCFLC03	427	596809	1 - 1608	15 - 1622	AL526255, AL519435, BG104510, AU143402, BG253574, AV754048, AW966973, AI498184, AI351071, AU151419, AI361937, AA442904, AI351054, AA132132, AI022775, AI275383, BE467338, AW197021, AI041953, AI080580, AI193174, AA854640, AI025467, AU153664, AA760953, H96783, AI434968, AI972627, N89763, BF115072, AW904942, AW904928, AW904943, BE702683, AI074497, AA844195, W17292, AA629531, AW132094, AA612846, AI052085, N62247, AI078457, H25973, AA705505, H99703, AI223367, AW583397, H82386, AI038650, AV754490, AV753938, AV753810, AW674468, AV754388, AI093667, AW583345, AA310729, R14443, R68340, AA468579, BE243420, T89940, AA132071, BE247099, H97713, AW129002, AW303293, BF364388, R17541, AW950031, R68289, H82279, AA773986, BE702649, R09765, T97422, R41908, AU129258, AI471139, R40767, AA599648, AA321963, AV753754, AA136258, AA323427, AW950030, N79338, AW664646, T97308, BF095988, AW370488, BF094205, BF000154, AI702869, D38293, AF186995, and AF271407.
HCFLJ52	428	130703 7	1 - 1468	15 - 1482	AL513766, AW014948, BF939675, AI927624, AI979001, AI480347, AI218726, AI652267, AW058447, AW081554, AI433494, AI433486, AW002382, AL513765, BE677472, AW594044, AI805092, BG034946, AW057702, AW195936, AW207187, BF002331, AI281889, BF431778, AW974325, AI621135, AA903087, BF002304, AW606041, AW874230, AI277084, AU076947, AA826896, AI886304, C01591, AW169658, BE184039, BE965481, AA939199, BE964687, BF904180, AI923989, AW834325, AI623682, AI554245, AA420722, BF904176, AI538885, BE011885, BG032704, BE176075, AI954721, AW265004, BF806065, BG028528, AI133559, BG029291, AV713427, AV682462, BF726894, AL048644, AI926593, BE893142,

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HCFL33	429	604583	1 - 1027	15 - 1041	D29244, AC016906, and AC016906.
HCFLP48	430	748224	1 - 1769	15 - 1783	AC023955, AC023955, and AC067843.
HCFLQ12	431	836110	1 - 2194	15 - 2208	AU118764, BG106162, BE778127, BE797150, AV752313, BG120218, AU154321, AI689734, BE250980, AU153415, AW996238, AW504395, AI436305, AI375392, AW006715, AV751567, AI799686, N39203, AA643830, AA488342, U68730, BE503320, AI093912, AU122988, AI362856, AI066714, AI553969, AI273196, AI865149, BF055137, AI687131, AI281041, AA603559, AA229748, BE537710, AI917924, AA659308, AA100647, N98456, AW292559, AI914101, AA230086, R69611, H00701, AA513239, R69700, BF593118, N63930, AA570601, AA777971, AI952841, AU157655, AA508513, AI054384, AA513611, AI963997, H00803, AW438591, AI381012, BG114013, AA527901, AA994883, H11745, AA736523, AI265850, R92034, AW016200, AL134263, AA578150, AA707600, AW003975, AA714293, AW303564, Z21601, AI673778, BF904624, N45268, AA100178, BE699778, AU131735, AW378473, AA889353, AW378471, BE832619, AA724529, AI905986, AV734537, AW971296, AW602127, AL049795, AK002111, AL049795, AL049795, and AL049795.
HCFLY20	432	786452	1 - 1083	15 - 1097	BE616406, BE615019, BF989601, BF940222, BF969387, BF112134, AW959838, BF112246, AI091422, AA769608, AI453560, AA865768, BE675043, AA778791, AI675358, AI479115, AI818037, AW205377, AA279658, AA279657, AW014291, BF223484, AI675304, N94489, AV764291, AW804504, AI678276, AW470673, AI651196, AW025567, AA587124, AA552707, AI472938, AI862519,

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HCFLY20	433	858875	1 - 1109	15 - 1123	BE616406, BE615019, BF989601, BF940222, BF969387, BF112134, AW959838, AA769608, BF112246, AI091422, AI453560, AA865768, AA778791, BE675043, AI675358, AI479115, AI818037, AA279657, AW205377, AA279658, AW014291, AV764291, AA587124, AI675304, BF223484, N94489, AW804504, AI678276, AW470673, AI651196, AW025567, AA807449, AA552707, AI472938, AI862519, AI300592, AI472848, BF222504, AI285342, W23939, AI886788, AA814274, R23917, AW135766, AA364431, AA318467, H46125, BE839019, BF431836, AW134786, AA648912, BF183227, AI422509, R23918, AA648263, AW888986, AI673149, N91973, AW833924, AI937869, AW088944, AI565895, AI860697, AW079768, AI917920, BF817746, AA830821, AW082600, AI627880, AI636710, AW084772, BF750885, AI766656, BF816031, BE962570, AW059713, BE613727, BF921215, AI961622, AI394539, BE966363, AI798258, BF913569, BF812932, AW084915, AI567290, AI738852, AA694608, AI783861, AI696263, AI287476, AI270039, AI805404, AI358362, AI265772, AW009066, AI612738, BE965279, AA766618, BF883915, BF764534, AI635469, AI749373, AI590787, BF913615, BF816041, AI700168, BE251133, AW410895, AA761323, BF816455, BG027628, AI203903, AI702540, AI718161, AI699862, AI632981, BE878103, AI364788, AI686631, BF035662, AI263070, BE061389, AW080730, AW170734, AI591081, BF904245, AI864827, AA916033, AI669897, AI683255, AI678302, AW263389, AW090494, AI627390, AI888482, BE735108, BE315058, AI269636, AI872159, AI566876, BF904248, BE904686, AW235028, AI690449, AI270561, AW083804, BF927081, AI458443, AI926531, AI492356, AW858254, AI889051, AI289892, AW002698, AI244380, AI457968, AI918424, BE393551, AI921396, BF915315, BG250249, BE964403, AW189933, AI041019, BE965601, BE965461, BE971893, AI251205, AI630887, AI611215, AW079334, AA813906, BF811780, BE747965, AL137745, AJ243797, AF151105, AF106934, AB049887, AK000568, AF012536, AL389978, AF067420, AC012067, AL137659, AX027129, AL080137, AF119337, AL137556, AF059612, J05032, Z49258, AL445220, Z97180, AL122098, AK000093, AL035407,



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HCFMA39	434	826004	1 - 368	15 - 382	AA398084, AW577135, AW804686, AW392670, AL119324, AL119457, AW604723, Z99396, AW858526, BF868687, AW858525, AW861944, U46347, AL119443, AL134527, AW384394, BF868684, BE705903, BE705906, AL119418, AW604726, U46351, AW861889, AL119522, AW858455, AW372827, U46350, AW363220, U46349, AL119396, U46341, AL119319, AL119401, AL134525, AL119484, AL119391, AL119497, AL119483, AL039912, AL119439, AL119496, AL119341, AL119355, AL037205, AL134536, AL119363, AL119444, U46346, AW969893, AW976505, AW969860, AW969729, AW971140, AW973803, AW975255, AW974962, AI142131, AL119335, Z69706, AX046357, AR060234, AR066494, AJ279014, A81671, AR069079, AX030435, AJ251859, AB026436, and AR054110.
HCFMJ40	435	604589	1 - 736	15 - 750	AA855007, BF905405, AI087042, AV738630, AV709806, AC002316, AC005082, AC006571, AC011464, AL034451, AC003664, AC011465, AC011495, AC020916, AL139396, AL031311, AL122001, AC007151, AC012087, AL033527, AL133174, AL139100, AC004053, AC005940, U91326, AC009311, AL136300, AC010463, AC008747, AC005409, AC007360, AL121928, AF030453, AL121926, AL121586, AC011742, AL079340, AC020934, AP000031, AL137162, AL034420, AL139099, AC004922, AL035494, AL121897, AC010205, AC009244, AC005088, AC011530, AC005747, AF134726, AC005971, AC008536, U29895, AC008403, AC005919, AC006312, AC008569, Z99943, AC008959, and AC004033.
HCFML07	436	580817	1 - 1224	15 - 1238	AW051492, AA453875, AA453791, AI128202, AA769365, AA889797, AI473332, AI205638, AW268986, AW876069, AW876070, AW876073, AC025797, AC025797, AL161430, and AL161430.
HCFMR75	437	894836	1 - 815	15 - 829	AI308839, BF589394, AU157469, AV722734, AL043412, AW264404, AV724473, AA732888, AI683223, AW977144, AA587860, AA765928, BE070630, R55763, T16333, AI698399, BE070503, AW189318, BE940413, BF155893, BF089441, BF089442, BE940416, AA884439, BE940418, AL036802, AI588892, BG026746, BG249582, BF791874, AL119863, BF814420, AI267162, BE940412, AI932638, AW087938, AL514627, AW051088, BG180996, AL514691, AI273094, BG025209, BG178911, BF089711,

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HCFMX16	438	581042	1 - 788	15 - 802	BF874953, BE065822, AC008813, AC022150, AC010328, AC005821, AL049538, AC005081, AL162430, AL135749, AC005914, AL137039, AL121890, AC006511, AL133387, AC008543, AC006115, AP001711, AC010271, AC005052, AL135839, AC005730, AC007637, AL049548, AC009756, AC010458, AL096701, AC009336, AC011895, AL121895, AC008745, AL031447, AC008018, AC007366, AC006111, AF168787, AC005005, AC004826, AL109804, AF001552, AL158040, AL024507, AL354872, AC007325, AL022316, AC007917, AC010150, AL450169, AC008521, AC008736, AC008770, AC020552, AC008813, AC008813, and AC008813.
HCFMX88	439	825989	1 - 1134	15 - 1148	AI791227, AA613257, BF681619, BG222269, AI753365, BE139358, AA410788, BF941382, AI017251, BE139267, AA640710, AV710482, N64587, AV729669, AI754037, AV763538, AW271904, AW974932, AA228778, AI535902, AI620585, AA524616, AI358712, AA527209, AI246796, AI570943, AA515048, AI370878, BG236735, AA779783, AI783911, AV714931, AV698930, AI687206, BF876179, AA262752, AI821714, AI792133, AI791913, BF743814, AI040051, AW271917, BE674952, AC005529, AP000553, AC002347, AC007676, AL080249, AL136300, AC005291, AC005694, AL136969, AL162505, AF254822, AL109976, AC003101, AC016602, AC008626, Y18000, AL109743, AL031680, AC024563, AP000215, AC011442, AC011452, AP001711, AC019187, AC005288, AF168787, AL138759, AP000356, AL121601, AC005562, AC007308, AC011462, AL031311, AC005089, AP001752, AL049832, AP000030, AC008569, AC009470, AC004905, U91328, AF111168, AL445220, AL096712, U91323, AC010271, AC011444, AC004668, AL355392, AC008040, AF031078, AP001712, AF030876, AP001727, AL135839, AL121753, AC005512, AL356652, AC005914, AC010618, AC000353, U91326, AL138878, AC006254, AL121928, AC006241, AL109825, Z98051, AL022316, AC022392, AC005527, AP000346, AP001725, Z93241, AL008635, AC005057, Z93244, AL121886, AC002470, AL136179, AC008760, AC022436, AC005399, AL020997, AC004821, AL021392, AL161731, Z97630, AC007216, AC005722, AC011449, AP000959, AL353748, AL162430, AC009499, AC009086, AL136418, AL136137, AC008764, AC008745, AC020898,

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HCFNM40	440	746864	1 - 1081	15 - 1095	AW572909, AA037767, AI961026, AI269898, AA399583, AI689929, AW470943, AA037780, AA757107, AI968995, AI206593, AW475023, AA609204, AA813241, D56264, Z45403, AI523529, AL038837, AL039074, AL039564, AL039108, AL039156, AL038531, AL039659, AL039625, AL039648, AL039629, AL039678, AL039150, AL039109, AL037051, AL037726, AL036725, AL039128, AL040992, AL045337, AL042909, AL039423, AL039410, AL039085, AL036973, AL045353, AL043422, AL044407, AL039538, AL038821, AL039386, AL039566, AL044530, AL039924, AL039509, AL043445, AW973200, AL038025, AL037526, AV745724, AV745917, AV743601, AV717990, AV717956, AL036196, AV746102, T24119, AV745723, AL037639, AV758878, T24112, AL045341, AW013814, H00069, AW975143, AW064110, AV718844, AL045794, AV738934,

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HCFNN16	442	740934	1 - 1583	15 - 1597	AL134527, AL134536, AL022718, AL022718, and AL022718.
HCFNN75	443	762959	1 - 1627	15 - 1641	BE548216, AI088554, AI090612, AI085712, AI565982, BE958291, W73326, N74544, AA574246, BF437839, AI916094, BE170548, AI469473, AA248115, BE835472, AI470186, AW784758, AA400248, BF678832, R46645, AA907749, R38570, BF960928, BF962173, BF855321, BF943176, BF952233, AA663248, BF906237, BF943179, AL045187, AK024734, AL121975, AC006257, AC004130, AC020719, AC025434, AL365475, AC006210, AL354985, AL358293, AC009784, AC006536, AL157821, AL121826, AC002115, AL136300, AC023796, AL136460, AF265340, AC002288, AL136137, AL161655, AC006354, AL162573, AL049556, AC006377, AL353802, AP001672, AL096862, AC010253, AP000034, AL031736, AL160412, AP001713, Z98304, AL078474, AP000101, AC009297, AL135878, AC010627, AL031594, AL158218, AP000379, AC026432, AP000086, AC027332, AL356969, AC025030, AC005034, AP001715, L81803, AP001712, AC073316, AC005799, AC007128, AP000264, AC008498, AC005084, AP001694, AL035405, AC004963, AL031737, AC006083, Z99497, AC007559, AC002068, AC005919, AL023581, AC006029, AL445258, AL024495, AF131798, AC010361, AC025771, AP000466, AL096773, AL031431, AC016950, AC004776, AC006231, AF051934, AL442124, AF129107, AC004012, AL355365, AL163268, AC010223, AC005323, AC011815, AP000339, AJ229042, AC009303, AP001538, AP001760, AC018684, AC020912, AP000217, AL135910, AC010905,

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HCFOG17	444	747700	1 - 1456	15 - 1470	AC073111.
HCFOH93	445	668236	1 - 590	15 - 604	AI347124, AI810827, N67034, AA894597, AI379537, AA973761, AA913818, AI819264, R26059, R91241, AV733401, AV733431, AW189617, AA088869, AA570374, AA938694, AA194233, T25739, AI539200, AI539170, AA410188, AI126024, AI051147, H68098, AA515349, H70441, F10462, AI350625, AA053010, AA033845, AI422859, AV707654, AU148193, AI361921, AW182219, AI342415, BF063199, AL041924, AW418659, AL042694, AV733824, BG033220, AV760391, BE047915, AV760389, BF725761, AV652027, BG105817, BF342223, AA760655, AW965201, AV760647, R91240, AI906328, AL514935, AL034417, AC005902, Z82206, AL035587, AC006288, AL121601, AF001552, AL117377, AC005057, AL138976, AL121585, U95739, AC005291, AC004383, and AP001699.
HCGBA15	446	604603	1 - 967	15 - 981	AI307201, AW192179, AU146342, AW970896, AI888017, AW277253, AW963450, AW438856, AV764329, AW263864, AA603323, AI345654, AA878149, AI753567, AW407578, AW272925, AI049940, AA602906, AL039958, H15679, AV761745, AV762957, AA813902, AV762050, AA410788, BE140949, AI310670, AA313025, BE138594, AI870197, AC004966, AC063976, AC022161, AP000280, AF060568, AC005005, AC009600, AC004383, AC000357, AF107885, AL133500, AC001234, AC002524, AC078889, AL442166, AL163284, AC009481, AC006965, AP000107, AP000039, AL121852, AC000004, AL035400, AC008482, AC003046, AL136223, AC007011, AC002366, AC010252, AP001715, AL022397, AC005201, AC007358, AB026898, AL158144, AL445483, AC004859, AL355103, AC006360, AC002300, AC002350, AL117354, AC008126, AJ277557, AP000499, AL078600, AC007386, AC009358, AL391122, Z83822, AC004605, AC006071, AC006512, AL137016, AL078593, AL049829, AP000689, Z98052, AL139087, AF111168, AC002400, AL031685, AC004025, Z93020, AL022315, AL121782, AC005046, AC006530, AC005037, AC006451, AC007563, Y18000, AL136139, AC023510, AL050307, AC026770, AL158206, AC003037, AL163303, AC004673,

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HCHAC68	447	610370	1 - 1639	15 - 1653	AI814271, AI660272, BE733694, BE278196, BE616040, AI921487, AA723184, BF912805, AA580180, W67935, BF914570, AI796102, AI066638, AI969257, AI057143, AI304408, BF847967, AW151722, N57743, AI471717, AA722642, AI915597, AA907336, AA523951, R55206, AI334785, W67936, AI469513, BF002802, AW338892, AI289318, AI805623, AA877398, T40767, AI884467, AW190147, R49990, H42109, R55203, BF914216, W67798, AW168785, AI189133, H42062, AW974038, BF062682, AW997129, AI682858, AW205907, AI521133, AI869853, AA936880, BG012852, T91785, T39744, AW969283, BE280738, AI860239, AI905201, BF915897, T39820, BF736607, AA593190, AW845349, C00542, AL134524, AL045327, AW858522, AL134110, AW601637, T84994,

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HCHBP49	448	892141	1 - 925	15 - 939	AW080609, AA777505, AV655811, BG035507, AA699618, AW959997, AW839589, AW839586, AI041608, AI076952, AI814907, AI184140, AA639663, AW072690, AA678056, AW207184, AA631597, AI306592, AA910200, AI306642, AI929528, AW167706, AA682596, AI017685, BF907069, BF907064, AI826960, AI033376, AW771736, BF447397, AW050708, AI619952, AA365399, AW083465, AW080512, AI022049, AV656071, AW839579, H58011, AW838933, AA702331, AI002035, R52052, AW204073, R52053, W07481, AA404565, BF841762, BE727090, H72928, BE867453, AW817349, AA946781, BF957579, AW006978, AW138971, AA535077, AI193618, BE708263, AI363980, AI814945, BF755699, AI674712, BF755711, BE391899, BF366860, AI354701, AA886701, AI540825, AA781607, BF763943, BF855079, AI185457, BF761830, AA326825, AI306593, AW371381, AA778926, AW235627, BE386665, AL162078, AL355385, AL355385, and AL355385.
HCHCA79	449	840333	1 - 723	15 - 737	AL537909, BF447901, BF446840, AW007385, AI952965, BF527829, AW974030, AW236681, BE256339, AW974031, AI342856, BF530699, AA483770, AA580062, BE256351, AI214387, AI242753, BE348549, BE670717, AI634489, BE221076, AI937763, AI962502, BG150407, BE254831, BE674644, AI937601, AA401158, AA454756, AI916079, AA922442, AW964112, AA400815, AW293099, AI197775, AA862255, AI935915, AI619559, AI002787, AW196540, AA346149, AA346148, AI248867, AW571994, AW245087, BG165228, M85703, AL390134, and AC026454.
HCHCG33	450	862534	1 - 2272	15 - 2286	BF982842, AI123543, AV656267, BE276559, N34474, BE898286, AI302757, AI339864, AA984191, AI214505, AF019358, AA732034, AI244758, AA367258, BF931216, H92395, AA804636, AA741011, AI963720, AI633168, AA577906, BF965775, AA483223, BG236628, AA610509, AI768952, AW271917, BF477463, AW338508, AI471691, AW341903, AW270258, AA565426, AI216998, AI431303, AA347114, AW517377, AA574442, AA053635, AL041894, AI338426, AA491814, AA601355, AI871954, AI061334, AA405493, AW504435, AI350211, AW193265, AA714282, AA623002, AA599920, AI002261, AI375710, AV762050, BG222269, AI244127, BF681619, AA640797, AI961983, AA740921, AI417469, AW021917, AW500250, AA346458,

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HCHMY57	451	833049	1 - 1861	15 - 1875	AL530195, AL536409, BF984403, BE883509, BF207118, BF205215, AW962226, AL536408, BF435941, AV693715, AI283122, AI598139, BF307187, AA805440, AI074111, AI041761, AI870958, AI580894, AI922242, AW664412, AA729133, AA587980, AA641707, AA773522, AA974371, AW749803, AI942450, AI378237, H96807, AI347229, AI811457, R52649, W94318, AA029943, AA910646, AA975200, AA193632, AA308878, AW467521, N56059, R49326, Z44459, R72275, F36112, BE778252, AA866032, Z19279, AI801169, R59095, AA029946, BG122513, AA810603, W78789, BE251780, AI051036, AA193591, F00421, BE162322, BG164266, Z40385, W92792, N48893, AI784248, AA953788, BF740457, R00219, AI444981, R00325, BF512099, BE545565, BE736311, BE729304, AW964095, AI612107, AI284542, AI583670, AW268221, AI345477, BE138624, AW301974, AI860787, AW268122, AI609967, AW084233, AI887211, AA830333, AA761557, BE965408, AW972273, AW301500, AI567625, AI538733, BF925370, AI690813, AW194014, AL514359, AI446110,

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HCHOC06	452	688042	1 - 504	15 - 518	AV682380, AV711247, BF971580, AV708077, AV714264, AV715426, AV760782, AW575300, BG255518, AV713587, BF206190, BG115687, AV703593, AV760249, AV711847, BF678954, AV734674, AV733545, BF038664, AV763301, BE263572, BF245151, AL036575, AV734569, AV707064, AV704429, AV702220, AV716006, AV714307, BG180476, AV714687, BG169627, AV716152, AV760999, AV759899, AV714579, BE906703, BG171750, AV761218, AV759767, BE729749, BE440021, BG116740, BF974973, AV762807, AV705898, AV718321, BG179094, AV736920, AV710279, AV763147, AV712951, AV739972, BE568651, BF308833, AV761232, BF726193, AV681722, AV682556, AV733926, BF310291, BF315845, AV759500, AV760467, AV714071, AV759752, AV735237, AV712588, AV703158, AV717769, BE396392, BE264794, AV759918, AV700416, BF529611, AV714468, BF679041, AV764448, BF976853, BF207743, BE881298, BF338565, AA526187, AV739769, AV759170, AV711929, BF973523, BE875367, AV711226, AV704968, AV711335, AV761350, AV761563, AA845550, AV711150, AV717065, BF032633, BE727076, AV761389, AV713433, BE783709, AV705777, BF664151, AV734695, AV755690, AA843113, AI038160, BE794193, AV710196, AI146805, AV762189, BE792548, AV762542, BG106856, BE910407, AV703976, AV759502, AV713846, AV706245, BE904621, BE265681, AV708721, AA541627, AV707529, AW015094, AI144259, AI159938, AV714722, AV710584, AI143145, BE265623, BF588648, AI125607, AI185846, AV759280, AV712728, AI087227, AV737443, AV695959, BF476267, AV760186, AI984682, AI601266, N43023, AI123872, BE907376, AV713638, W72617, AV744929, AI337987, AA053931, AI147304, AV740690, AV737450, AI817435, AI745573, AW029437, AI192559, AW007323, AI042133, AV733066, AI720243, BE208490, BG113600, AA864485, AA603163, BG104605, AV712876, AW161620,

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HCHQB93	454	793648	1 - 2149	15 - 2163	BF792998, AI418534, BG035429, BG249122, H88399, BE891636, AW380545, BE617727, BG251433, BE150741, AW118999, N63602, BE208166, AW167150, AW167144, BE706513, AI954926, AI479629, AI659406, AI346433, BF736861, N94373, AI566762, AI184477, AW004881, BF736852, AW167152, BE676553, N80988, AI361712, AI377483, AA044581, AI674296, AI668872, BE962263, AI625610, BF837579, AW380475, AA044328, BF837584, AI890981, AI336685, AW083276, AI446826, AA824649, T67070, R97963, W32893, AI131077, BE931378, AI934293, AW338045, AW380474, R91339, R14716, W35162, AW377505, BF876053, BE706515, BE695845, T67009, AI910283,



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HCLBK61	456	845659	1 - 1574	15 - 1588	AW888225, BE909010, BG179776, BG035454, BG110521, AW961918, AL046940, AW886511, BE257058, BG028046, AV704518, AV707665, AA115296, BE778760, BF968134, BG118898, AA127752, AV709320, AA482432, BF844844, AI719551, AA115271, AV706611, AA292209, AA127675, AI754750, AI817764, AI084658, AI921925, BF215850, AI480051, BG028121, AI720847, AI936895, AV704680, BF844824, AI978596, AI973004, AV706575, BE315319, BF930346, BF675963, AI754633, W39064, N25471, AA927727, BF667059, AA482579, BF593800, AI142422, N94401, AI423383, AA452021, BE810269, AA009997,

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HCMSA37	458	598712	1 - 893	15 - 907	AI276418, AV761025, and AL136310.
HCMSR07	459	821338	1 - 1494	15 - 1508	AI733622, AI050031, AV756642, BE676932, AA583244, AV735495, AI254798, AI457397, AA604897, AV741940, AA501784, AW327868, AA653618, BG004525, AW970564, AW406755, AA366035, AW086257, BE139371, AI245679, AA748121, AA553604, AV742057, AI133164, AI866908, AA318652, AA536015, AV713396, AL138265, BG109817, BF805334, BG007292, AV761745, AV757306, AW576389, C05986, AV758600, AW851028, AI745325, AA531554, AI630203, BF887156, BG014866, AA916039, AA737154, T71235, AA826032, AW274349, AA862173, AA577426, AA053635, AA629992, AA482681, AL041368, AA573020, AA148489, BF772619, AW303196, AA599141, AI358229, AW301350, AA654322, F29989, AV763354, AI890348, AV757395, AV761925, AA111909, AI365988, BE205860, BE349302, AA831904,

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HCNAI74	460	750972	1 - 989	15 - 1003	AA327041, AC011030, and AC011030.
HCNCT01	461	840357	1 - 664	15 - 678	AC026424, AC010245, AC010245, AC026424, AC026424, AC026424, AC008587, AC008587, and AC008587.
HCNDR39	462	845243	1 - 3267	15 - 3281	AW888226, AL533138, AL533139, BF793325, BG167803, BG167534, AL120634, AI827909, BE538178, BE384169, AA020821, BF445962, BE718967, AW362240, AW836777, AI749953, BE858286, BE069597, AA020870, AW365849, AW365625, BF574938, BE707486, AW502344, BF724145, AW365835, BE875381, BE069689, AW178314, W68104, BE931607, BE933202, AA699472, BE069702, BE867759, BE069606, AA865620, W67685, BE069648, AA504655, AW468792, H10420, BF326669, AI359848, AW365669, AW365687, AW517686, AI148294, AW365683, BE551738, BE069588, AW365829, AL049068, AA700317, W27724, AA148566, AA054059, AA035524, W27330, BE069742, AW953336, BE880419, N25698, AA971558, N32535, AI753331, H27987, W28589, N23330, AA486641, AW152229, BE835231, BE835382, AA490010, BG027237, BF872424, H10421, AW628769, W68415, AA907403, AA960971, AW892706, N42751, N32491, AW239322, N21655, AA826422,

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HCNSD91	463	834817	1 - 856	15 - 870	N52817, AI660875, AI094982, AU144847, AA550950, AW962524, AA524869, R55013, AI086369, AA256408, AI619640, BF346704, AI799758, BE222839, W72302, T64883, AI768161, AI219698, AA234488, AI168674, N24054, AI953535, AI216186, AA256302, D80195, H72264, AA480493, N74614, AA907539, AA291494, T81879, AA468535, R55151, R48208, BE858456, AU150143,



FOI b7E b7C b7D

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HCNSF01	464	901060	1 - 1721	15 - 1735	AL523497, AL523496, AI804917, AW973481, AI133370, AV716073, BF027170, AW024415, AI302184, BG120804, AV692708, AW955102, BF108769, BF691126, BE264000, AW273859, AV700904, AV699357, BE386262, BG169469, BE789575, AA948547, AI299954, BG236229, AW043839, AV685386, AW516856, AV688204, BE546468, AA639665, AA911904, BE819542, AW119093, AI097457, AI522298, AI222830, BE819457, BE819514, BE839222, BE819567, AW182738, BE819505, BG170954, AI305813, AA526991, AA527252, W96028, BE839045, BE819511, AA280758, BE831532, N50841, BE790051, AA643646, BF371410, AI290542, BE674172, BE819590, BE819554, W94661, AI240325, AI751876, BE871104, AI290551, AI300130, AA885922, AA664347, AW050812, AV659324, BF219419, AV645491, AA838720, T74688, AV693575, AV692481, AW176080, C75117, AI400510, AA100857, BE018093, AV692975, AA056968, BE819468, N54246, AV645442, AA481324, AI880359, BE772570, AV694085, AV694699, AV653729, AI394339, BE819545, AA486172, AA281439, AA468902, AV695940, AI751877, BE939493, AV719793, AV660065, T95295, AA643688, AA359423, D20113, BF379099, BE819461, BE831675, AW854105, AA385681, T95375, AA057016, AI890004, AA359712, N58703, AW071048, T74801, R50203, AW054934, Z19305, T64005, BE716219, AI635828, AI928438, AW970142, R40496, AA602300, AI685551, BE301581, T36144, AI262366, AA133917, AA514233, BE819546, AW970145, AV716521, BF752093, W45353, AA315963, AA533897, BF912723, AI273020, T86288, AW768388, T90950, AA486109, R50150, AW273588, T86387, AI635443, T85836, AA587303, BF359777, AA353447, BE839081, T98225, R13065, T64084, AA353040, AA513774, BE819498, BF771959, AA383720, AW945448, AA669130, AI872115, AI367142, AI758444, T27349, BE008461, BE819456, AW467705, AA253283, AW316697, W15319, AI819151, AI571469, BF359773, AA382189, AA130233, AA361822, AI557206, BE831556, BE831640, AI613022, AI401483, AA576059,

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HCNSG06	465	600396	1 - 495	15 - 509	AC073607, AC073607, and AC011039.
HCNSG32	466	825978	1 - 903	15 - 917	H92353, Z19477, AW085108, AC015973, AC024067, AC006983, AC015973, AC015973, AC053522, and AC053522.
HCPAE41	467	799546	1 - 662	15 - 676	AW961040, AV716177, AW951455, AV729065, BE440010, AV733944, AV716395, BF691565, AV717157, AV733543, BE384408, AV726858, BF183932, AV726077, AV742382, AA782412, AV712295, AV764150, AA035386, W32750, AV712026, BF030584, AA452722, W44483, AV682382, AI080285, AA147986, W73817, AA148014, AV716104, BF572910, BE410504, BF218708, AW288085, AI066753, AI826700, H49745, W44484, BE909889, H69070, BE540698, AV711663, AI685629, AA057029, AI090058, AV728752, AV715987, AI139439, AI720442, AI361072, W76429, AV648883, W72037, AA888074, AW026542, AV704594, AI363004, N58555, AV709283, F36442, AI582271, AW516743, AI744625, AI085400, AI860947, AA579651, AA150040, T30430, AV740182, AI335748, T34177, BF790247, H72938, BE563935, H48067, F36921, AV712829, AA862651, AA579160, AA431325, AA150156, BE733278, AA830645, BG179750, AI394420, T34802, H69071, T89164, H99978, AA047370, BF572393, BF184523, T35804, H69218, AA938754, AI261333, R72005, H47715, H49750, AW797386, AI761650, AA669621, H50333, H46824, AW771671, AA862374, AA748804, AI885762, H49513, AA887224, T34182, AA568518, F26842, T36153, AI219387, BF439706, T35549, H72539, AA923809, H73233, T34284, AI184113, AI367456, T31812, BF667020, AI363806, AI358853, AI002474, H69064, AI150900, BG006574, T34116, AW364000, C05196, BE720230, R75697, D30929, AA037011, AW820482, AI769256, AW779176, H69063, H46745, AI826369, AA248079, H74239, T32128, AW182004, N88560, R72006, AW800359, T63027, T35256, BF115009, T30271, AI220761, AI093342, AA669683, N78151, T25347, AA035385, AI582096, AA369356, AI097516, AA301051, AA090035, AW579422, AV712734, C04184, AI015971, AI302031, BF763996, F18095, BF081894, BF081895, W32693, AW820546, AA125944, H49518, H50450, AI185447, AA972455, AI460160, AW363987, AA815301, T25346, AF151072, AC074013, AC051655, AC073073, and AC073073.
HCQAK36	468	561280	1 - 1218	15 - 1232	AA633196, AV687947, AV692202, AA442396, W91904, AV684602, AI421025, AA835643, AI204655, AW614446, BF223837,

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HCQAQ47	469	603530	1 - 848	15 - 862	BF574993, AL137607, AF109219, AC011123, AC011123, AP001460, AP001460, AP001562, and AP001562.
HCQAS72	470	828082	1 - 1374	15 - 1388	AL046886, BE279307, BE019568, BE391135, AA664125, BG177319, BE384305, BE390284, AW501171, BE889171, BE273776, AW499614, AW500833, BF346622, BE410770, AI371317, AA676873, AI434698, AV703394, BF922390, AA807225, AA721751, AI536606, AA760945, BE163519, AW976065, AI913150, AW747905, BF994170, T90581, BF755836, BF904131, BF084780, BE389227, BG108346, BF828643, AA152296, BG009400, BE778885, D61199, AI378039, BE075569, AF056191, AC007050, AC004033, U80745, AL031670, AC005500, and AR009990.
HCQBM95	471	841011	1 - 678	15 - 692	AV701034, AV755304, AV701132, AV757517, AA280641, AV756221, BF244422, AV716491, AV717394, AV757617, AV711667, AV711949, AV760446, AW238481, AV761775, AV764057, AV760247, AV715083, AV712674, AW163168, BF243027, AU131818, BF213949, AV702117, AV762751, BF210229, AA483857, BF975292, AV714474, BE737903, BF975469, AW328621, BF975466, BG028715, AA533483, AV716192, AW020426, BE865475, BE748071, AW971321, BF211941, BF942405, AW328622, BE439720, AA535577, AA528409, AU122940, BF031342, AU126784, AA747259, AV762668, BG249194, BF594874, BF102961, BG152698, AV723913, AI879598, BF207764, BG249553, AV712895, W42841, AW327536,

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HCQCM95	472	800912	1 - 2615	15 - 2629	<p>AU133305, AU119335, AU133561, AL043185, BG260871, BE880122, AU134779, BF792084, BG109105,</p>

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HCQCM95	473	886938	1 - 2003	15 - 2017	AU133305, AU119335, AU133561, AL043185, AU134779, BF792084, BG109105, AV722697, BF796575, AV726952, AL043751, BF207629, BF794914, BG104749, BF037958, BG164074, BG180277, BG170273, BG105199, BE622306, BG105068, BF574370, AV701963, BG260871, AI096629, AI743380, AA523928, BE465858, AW237306, AI949961, AI041193, AU154580, BG105260, AW589667, BE552144, AW084006, N41405, C05812, BF339890, BF571855, BF691762, N36103, BE549847, BF195635, AI791370, AI633952, AI963667, AW316833, AI627834, AW069140, BF436485, AA843596, AA393650, AW361954, AI753991, W60991, AI587154, W73124, BF381810, BE706244, BG166655, AW965871, BF796876, AI147931, BF573372, AA857095, AI148510, AA262483, BF796960, N20620, AW131012, AW195805, N32195, AI564583, AI423959, AI349383,

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HCQCV23	474	800888	1 - 1400	15 - 1414	BF795621, AW601738, BG179209, W81119, BE768838, AV722905, AW361705, AW946426, BE714167, BF221558, BE223004, BE768818, AI023171, BF000074, BE768816, BF795943, BE768829, AW519321, AU147373, AA535154, AW576145, AW157219, AW842225, AW952660, BE714156, AI921982, AA515031, AW069552, AI311724, AI857692, BE768824, AI862158, BF924109, BE327630, AI289893, AW747859, AI079531, AA235169, BE932048, AI051186, AW135105, BF910355, W78767, N64363, BE932037, N92160, H27964, AA554699, W24363, AI358378, AA827945, AW151259, AA778925, AW804041, N48967, AA935704, N98752, AI087228, AI289894, BE967498, AW517866,

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HCQCV23	475	862285	1 - 1398	15 - 1412	BF795621, AW601738, BG179209, W81119, BE768838, AV722905, AW361705, AW946426, BE714167, BF221558, BE223004, BE768818, AI023171, BF000074, BE768816, BF795943, BE768829, AW519321, AU147373, AA535154, AW576145, AW157219, AW842225, AW952660, BE714156, AI921982, AA515031, AW069552, AI311724, AI857692, BE768824, AI862158, BF924109, BE327630, AI289893, AW747859, AI079531, AA235169, BE932048, AI051186, AW135105, BF910355, W78767, N64363, BE932037, N92160, H27964, AA554699, W24363, AI358378, AA827945, AW151259, AA778925, AW804041, N48967, AA935704, N98752, AI087228, AI289894, BE967498, AW517866, H27965, AW996574, AA234898, H25648, N48871, H16658, BF922779, AW264713, AA554060, BE765196, AW511823, AA761787, AA256622, W30963, AW803550, AA748881, H16515, Z42632, AA642946, Z24944, N45683, BF944000, AI468784, R62650, T05232, BF870678, BE765237, C18517, AI382379, H90088, Z38800, BF944097, BE765209, N99389, N45623, BE843427, R62602, AA634880, R36126, R36398, AA256515, BE827655, H98998, AI474159, BE827687, H89998, BE004594, AW273277, AW163223, BE172030, T07753, N71434, BE827681, N93642, N98751, BE827642, BE827685, BE827607, AW803684, AW946373, BE827630, AA091881, BE815039, AV654070, AV727787, AV703169, AV725826, AV709660, AV725745, AV704217, AV702280, AV661704, AV691080, AV703501, AV655280, AV702385, AV659322, AV687035, AV650315, AV709314, AV708381, AV697196, AV703762, AV656283, AV660608, AV709407, AV727032, AV726590, AV729094, AV655096, AV727003,



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HCQDD32	476	832140	1 - 870	15 - 884	BF508973, AA903973, AI369389, AA192180, AA992672, AA973837, AA976064, AI420102, AU159772, AI431269, BF879114, AL517432, AI074883, BF345083, AI086258, AI718078, BE786167, BE378401, AW810603, H21506, AA910919, BE842349, AW810526, BF195605, AW388254, BE962313, AF196779, AC002470, AC011479, AL138787, AL163249, AC010538, AC010538, AC068559, AC068559, AC068559, AC012300, and AC012300.
HCQDD61	477	845771	1 - 861	15 - 875	AV691862, AW957628, AV695700, AW960655, AW964223, AW950597, AV709273, AV727337, AV696234, AV702296, AV704767, AW950258, AW950143, AW949517, AW964112, AW967325, AV683669, AV726194, AV691615, AV706925, AW960067, AW952328, AW952460, AW954969, AV706316, AV709555, AV650283, AV650591, AW964440, AV650691, AV650768, AV658751, AW951437, AW950272, AV693149, AW960207, AW955710, AV655560, AV704740, AV701613, AV701844, AW949478, AV649566, AV702789, AW964071, AW950443, AV657617, AV703878, AW950862, AV706683, AW960601, AV725709, AW952403, AW952183, AW959806, AV656903, AV661704, AV697196, AW952751, AW956075, AV645936, AV709587, AW955723,

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HCQDT67	478	834331	1 - 739	15 - 753	BE379331, BE073385, H49070, AV687808, AV698583, AV703653, AV708191, AV708980, AW967091, AV694524, AW954697, AV693230, AW952196, AV707271, AV727268, AW958869, AV705437, AW960535, AV701067, AW963231, AV701560, AV707498, AV683886, AW960597, AV703000, AV653223, AV646672, AV686064, AV702861, AV725134, AV688823, AV702832, AV728642, AV688667, AW956075, AV686414, AV693523, AV683443, AV728985, AW950267, AW952417, AW951816, AV651503, AV705436, AV727047, AV656240, AV656250, AW967052, AV693000, AV727238, AV695359, AV725369, AV706925, AV646722, AV661704, AV697196, AV658863, AW954145, AW960779, AV659322, AV726156, AV654908, AV698545, AV708091, AV708381, AV652837, AV660728, AV703169, AV728518, AV706734, AV701496, AW956781, AW960076, AV701180, AV655096, AV726681, AV687176, AV685688, AV689800, AV693005, AV687909, AV707933, AV701914, AV660096, AW953499, AV709407, AV727929, AW951239, AV725826, AV728965, AW950223, AW945195, AW950434, AW955394, AW966146, AV691080, AW963756, AV687527, AW949454, AV707500, AV729131, AW962508, AV645545, AW956384, AW961264, AV726694, AV728779, AW959848, AV659389, AV705811, AV659294, AV697895, AV728652, AV701796, AV653353, AW950443, AW949447, AV704847, AW962003, AW958509, AV702738, AV709692, AV729494, AV683101, AV726067, AW955613, AV696106, AV709587, AV650315, AV661490, AW951263, AV727613, AV689111, AV655280, AV728924, AV660258, AV729597, AV727787, AV686060, AV725745, AV660608, AV706527, AV702745, AV726590, AV656478, AV653784, AV709314, AV702385, AV652001, AV651955, AV707979, AV726194, AV709580, AV727003,

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HCRAI29	479	844084	1 - 676	15 - 690	AF157027, and AL096810.
HCRBI79	480	679646	1 - 1498	15 - 1512	BG110742, AW272167, BG153387, BF345586, BE220468, BE467402, AI582620, AW615190, BE217881, AI034428, F24085, BF110919, AI797165, AW450298, BE328876, BF512484, AU144283, AA972829, W90618, AI348573, AA715829, AA278523, AA258057, AA291302, BE047718, AI932687, AI474741, AI863472, AA992435, AI703192, AA262062, AW901259, AA682710, Z95704, AP001634, AP001660, AC004527, AK021514, AC015776, and AC015776.
HCRBL20	481	709660	1 - 2106	15 - 2120	AU123880, AU137327, BF983995, AI796539, AW964758, BF691721, AI301961, BF478190, BG105255, AW027599, AW964759, BE467411, AW665584, AW044582, AW235667, AI828213, AA075557, AI142288, AA554366, AA194931, AI453084, AI638321, AW205060, AW964763, BF977077, AI377198, AI979164, BE857620, AI216072, AA194932, AU157132, AA449002, BE940580, D80402, AI216074, W93936, AW964764, AA524862, N63060, AW612652,

					AA962391, AA195588, AI539364, D80401, AA075562, AA180173, AI693460, W93935, AI208013, AA243504, AA180147, AI439529, BF241341, AA862884, AI358753, N46536, AA885417, AV750595, AI758401, AA243357, BF222352, AA450312, BF197943, AI806439, AA983410, BF675430, AA339971, AI682244, AI765882, T89241, AA213530, AW085973, H88454, AA249662, AA422037, H88386, AW661910, AI365170, AW589679, AA862164, AA093684, D81650, AA884124, BG165531, AW102693, AA194884, AA757061, AW519221, BE670876, AA249563, AW137240, AK000737, AL117531, AK001992, AC048334, AC048334, and AC024709.
HCRBX84	482	100710 5	1 - 832	15 - 846	BF967248, AL449827, BE249916, AL449829, BE538664, BE792143, AV729232, AL449566, AV728899, AV729092, AV709542, BG115656, AV705897, AL449830, AL449828, AV727974, BF967970, AV728087, AL449568, AV724431, AA687506, AL449569, AV724794, BE293587, BE304996, AI366509, AV725880, AV729470, AL525777, AL525733, BE908675, H30610, BF819047, AA425509, AL449567, AI929037, AL449682, AA478172, R87904, BE293780, AL449831, BF922393, AV726564, H61765, AW371128, AA425257, H86924, AW371127, H45229, AI878979, AA324861, AW578726, BE737467, AA348313, AV724395, AW578724, AA043609, AW578786, AA325850, AW381620, AW379676, AW578783, AL449832, AI928870, AW362449, AA337507, AI050858, AA610213, AA618143, AW362403, AA348707, AL449683, AA346652, AA613406, N92162, AI346906, AA767356, AW362411, H40602, BF194953, AA745988, BE825140, AI669064, AA514397, N46586, BE702449, AI819114, BF826665, BF928817, AA805626, BG014017, AA732332, AW028102, BG007385, AA459078, AA977070, AA939149, AW516035, W93538, AI879481, AW881969, AW005481, AA425399, AI671046, AI243428, AI022343, AI189502, BF432406, AI140204, AA594462, AI813840, AA458887, BE677897, AA478016, AI858653, AL532475, AA948218, BE222922, AI207254, AI362741, AA425852, AL532476, AA568596, AA693420, F32711, AA503522, AA694562, BE840603, AI376467, AI362619, H61766, AF220191, AL021578, AJ276469, AK000531, AK026642, AF314058, AL021578, and AL021578.
HCRMA24	483	897005	1 - 638	15 - 652	AI476275, BF747790, AB011180, AL049956, and AL138759.
HCRMR35	484	849071	1 - 2895	15 - 2909	BE901275, BE887911, BE540235, BE540111, BE900318, BE892421, BF347036, AI091372, AI978955, AI148871, AW136306, BF062764,

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HCRMR35	485	874743	1 - 2904	15 - 2918	<p>BE901275, BE887911, BE540235, BE540111, BE900318, BE892421, BF347036, AI091372, AI978955, AI148871, BF062764, AW136306, AI076374, AI760726, AW074845, AI950999, AI141627, BF846203, AI634279, AW300696, AI027708, AW264933, AA135123, BF743362, AI862003, AA010075, N26912, BE867194, N98428, AI401636, AW800867, C20943, AW404376, H16294, AI249785, AA135236, N39868, R93263, AI612798, H16471,</p>

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HCRMR35	486	897434	1 - 2904	15 - 2918	BE901275, BE887911, BE540235, BE540111, BE900318, BE892421, BF347036, AI091372, AI978955, AI148871, BF062764, AW136306, AI076374, AI760726, AW074845, AI950999, AI141627, BF846203, AI634279, AW300696, AI027708, AW264933, AA135123, BF743362, AI862003, AA010075, N26912, BE867194, N98428, AI401636, AW800867, C20943, AW404376, H16294, AI249785, AA135236, N39868, R93263, AI612798, H16471, AA731184, AV742859, AA559951, R76656, AI201837, AI923037, AA810473, AA635636, AI190005, AA081091, AW957038, T16484, AA081249, AA370045, AA961632, AA229775, AW978031, AA230010, AW885820, AI864137, C01543, T46994, R93171, BF509404, AW579026, AA665667, AA872011, AW295123, D31491, BE551201, AV658727, AL117565, AC073219, and AC073219.
HCROC18	487	884144	1 - 1877	15 - 1891	BE868797, AI206965, BE048676, AW960582, AI955864, AI978772, AI952843, AA910462, AA532931, AA551929, AA573386, BF351374, AI718392, AI749756, AA633326, AU141384, AW192987, BF741147, BE070269, BE070250, AA327208, AI341292, AU158961, BF379283, BF882621, AW512163, BF855740, AW859223, BF873073, BF855742, AI572827, BF762518, N54395, AI345905, BF840674, AI345416, AI345612, AI345415, AL043355, BF921092, AI281867, BF343172, AL038445, AI923422, AI274745, AW023590, AI589947, AI554821, AI648408, AI950664, AW169604, AI648508, AW827227, AA983883, AI251221, BF950970, AW303089, BG112239, AI241923, AI288285, AI915243, AL039276, BG254570, AI700159, BF680133, AL040243, AW090393, AI573167, AI631216, AI590686, AI690813, BE900751, AW163834, AW193203, AI866770, AI452993, AI868204, AI554343, BE967255, AI174591, AW263804, AV681858, AI921746, AI955906, AI539808, AL041150, BF904773, AW082532, AW090141, AW080095, AA833760, AI457188, AI611810, AI699011, AI280561, AW089572, BG058217, AI305745, AW168503, AV741327, AI476086, AI690748, AI421085, AI955587, BG030837, AW022300, AI689420, AI917252, BE907624, BG256090, AI469014, AI624120, AI610667, BF032500,

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HCUAE53	488	665716	1 - 1473	15 - 1487	
HCUAO46	489	610056	1 - 248	15 - 262	AA765054.
HCUAT74	490	834611	1 - 759	15 - 773	AI419209, BG056208, AA641625, AW952859, AA056741, D19625, AI207769, AI208665, AA147362, AV645797, AI818767, F36670, AV741200, BF576372, F22593, AI066491, AI754924, AA988305, AI814466, BE875854, AV743366, BF590255, T30433, AA769330, W80797, N56696, AV741023, AV739607, W72859, AA521036, BF439433, AI832770, AI418592, BF057456, AW268728, F22210, AI523978, AA806392, AA778120, AI478752, W80846, AA595920, AI126087, AI436418, AI761020, AI927404, AI356487, AI492658, BF880862, W75955, AI492657, AI421680, W69164, AI129903, BF216971, AA836089, F33298, AV743601, AV745831, F27098, AV718844, AV720464, AV720731, AV745724, AV701012, AV724520, AV745723, AV737584, AV740535, AV742667, AV701261, AV738934, AV742001, AV743008, AV701163, AV742720, AV746335, AV744934, AV701118, AV722801, AV701017,

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HCUBA28	491	846300	1 - 204	15 - 218	<p>AA778164, AI084880, AA489524, AA598671, AI096605, AI138434, AA878130, AI682698, AW291116, BE905151, AA069623, AA046418, AW085896, AI187258, AA477120, AA478402, AA490974, AI435289, BE042533, AI148631, AW575222, AI129122, BF984756, AI866874, AI188813, AA428301,</p>

					AA443892, AA482599, AA857473, AA421602, AA993381, AI207334, AI125780, AI973186, AA236716, BG231665, H81401, AI190547, AA861931, AI041092, AA719004, AI183730, AA845629, AI313216, AI720302, AA936875, AI266395, AI378065, AI089259, AA918521, AI086012, BF445780, BF198059, AA984949, AI271840, AA947612, AA782362, AW090209, AI341947, AI494012, AA368636, AA587710, AI222778, AI869653, AA999976, AA534921, AA483546, AA342986, AA617704, AA568683, AI130704, AA846837, AI582212, AI122651, AA947300, AI025441, AA722047, AW277049, AI362171, AW591859, AW974228, AA291397, AI560624, AW058365, AA252793, AI581775, AI802243, AW170331, AW007603, BF195707, AA479595, BF939899, BE856175, T40793, AI075257, AI475967, AA135458, AI453132, AW973914, N30692, AA121147, AA932031, AW057739, AW055239, AA496475, AA027793, AA405484, T40786, AA132174, N73947, T40830, AA151000, AA187601, AA947459, AA411023, AV744544, H91461, AI832738, AA126978, W42943, W45154, N21350, AI003316, N20150, AI056115, T40794, H48884, F24529, AA758563, N49923, H68214, AA477367, N24608, T89866, N73614, AI002234, R55299, R77926, R76823, R83925, H24565, AL519544, R77470, H61377, AA860737, BG005846, AW368981, AI365595, BF981150, BE005644, AA291796, D20042, BG005841, BF972309, BF970403, BF806795, AW884064, BG151217, BE867460, AI500049, AA687927, BG011513, BG230558, AA627682, BE774142, BE834081, BE745993, BF842733, BF593147, AK000640, AF070657, AX013076, AF068287, AC073342, and AC073342.
HCUBC45	492	722211	1 - 474	15 - 488	AC008878, and AC008878.
HCUBM41	493	826705	1 - 1255	15 - 1269	AC022858.
HCUBN69	494	826610	1 - 844	15 - 858	Z36758, AV706046, AW502949, AW970922, AL037910, AI859834, AV733328, AA192278, BF766734, BE300645, AI445815, AA501614, AW419081, AL119608, AV738489, AI753488, BF681174, N22032, AI261913, AA663966, AV702609, AV706237, AV762616, AA984191, AA128592, BF725347, AL359076, AC024086, AC009358, AC024082, AC004417, AL033529, AL135901, AL445435, AC024158, AC008264, AC005874, AF134471, AL139824, Z98256, AC010491, AL022320, AL118505, AF002223, AC011200, AL096863, AL133243, AC083870, AC008812, AL022163, AC005082, AP001687, AC018755, AL121787, AL109653, AP000695, AP001726, AC005972, AL121657, AC009079, AL121761, AL109825, AP000356, AC018663, AP001712, AC009477, AP000066, AC005939, AC005412, AP001727,

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HCUBY47	495	842787	1 - 1093	15 - 1107	BF804442, AL134274, BE719931, AA015973, BE272611, BE004073, AU130686, BF944311, AA350288, BF980625, AW381549, BF930222, AW376075, AA015633, AI372752, BF804440, AU129444, AW375977, BF094324, BE779592, BE066334, BF094333, BF806867, BF804426, AW905056, BE746155, BF882898, BF765484, AA368585, BF765486, BF765482, AA985318, BE867316, R25575, BE869519, T09473, BF836572, AA326116, BE703682, BF951895, BF986389, BE700193, BE825157, BF830743, BF879535, AK001591, AK000605, AB020718, and AJ289016.
HCUCV66	496	806577	1 - 1100	15 - 1114	BE791076, BE562371, BF125922, BE545816, BE893710, BF025656, BE560850, BG254242, BE783296, BG109121, BE386688, BE538318, BE397803, AI022637, BE277828, BE276444, BE397848, BE267577, BE275850, BE784809, AA149073, AA149074, BE277717, AV761654, AI742008, AW006212, AI762829, W46144, AW958719, AA461220, AW961375, AW440327, AI423439, AI038508, AI919233, AA766181, AI803623, AI302638, AW406517, AI493323, W49612, BF025931, AA316936, BE221469, W22295, H82161, BE890924, AV723457, AA576741, AA483830, AA306274, AA397638, AW363176, W49645, AV725174, AI636463, AA424395, AA443665, W17305, AI400950, AI623538, BF333865, N64216, AI086725, AA424527, AA417584, AA447051, AI419519, AI052175, AA563690, AA417693, H77378, AI683554, BF246086, AA460917, AI805961, N58015, AI383711, AI682368, AI689431, AI364272, AA714021, BF002852, AI962555, W31137, AI381256, AI383080, AI656429, BF221987, AI300197, AV705606, N33015, AI400647, AA188722, AA359309, AI867340, W46156, AI422606, W00540, AI630432, AW006525, AA188419, AW004769, AI536105, AI925290, AA732565, AW582494, N78870, N91843, AA877771, AW609833, W24467, BF377942, N92289, AA033615, AA328119, AW609855, AI494246, BE077551, N72251, AV691751,

					AA810126, and AL008582.
HCUDJ41	497	610062	1 - 357	15 - 371	BF370901, BF359481, U95742, AC007216, AC009048, AC009048, AC009048, U95742, and AC007216.
HCUEC55	498	534214	1 - 346	15 - 360	AI248715, and AC004885.
HCUEG85	499	610072	1 - 491	15 - 505	AV760519, AA864415, AL133351, AL133351, AL133351, AC013339, and AC013339.
HCUES35	500	694950	1 - 485	15 - 499	AI949453, AI762108, BG118380, AA713993, AA825272, AW138561, AA603319, AA884256, AW269941, AI393407, BF089205, AC022515, and AC024076.
HCUFC77	501	745374	1 - 1531	15 - 1545	W02392, N72566, AI114543, N70293, AA643441, AI355246, AA947265, AW062728, AI792092, AI821056, AI821805, AI745116, BF991881, AA714011, AA720582, BF991882, AU120416, BE675681, AI753904, W04238, AI523074, AI568376, AA564256, AW965008, AA555232, AW104161, AI735609, BE152006, AW591304, AV655282, AW192419, AA484892, AV737323, AI565084, BG110480, AC005261, AL354720, AC018755, AL109827, Z93015, AL157938, AL034420, AC006057, AC005288, AL078638, AL022336, AL049776, AL136137, AL121933, AC005484, AL049694, AC008395, AC011895, AC004826, AC005037, AP001727, AL118520, AC027319, Z93930, AC007676, AL035249, AL031005, AF001549, AC005409, AP001760, AL034405, Z97985, AC004812, AC020906, AL355392, AC004166, AC006329, AL121905, AC004813, AC024563, AC022543, AC010271, AC005740, AL139100, AC011495, AC011464, AC006132, Z83838, AL035400, AL034417, AC016830, U95739, AB001523, AC025436, AL356801, AC005940, AL117330, AL355385, AC005197, AC008569, AC006449, AL160175, AC000134, AC009079, AC005486, AF196971, AC005399, AC005098, AC005291, AC009298, AC008784, AC010605, AC008536, AC005522, AC003665, AC003043, AP000514, AC007151, AC004089, AC007242, AC008760, AL121989, AL445669, AL117258, AL157827, AL031432, AL133448, AL035704, AL049762, AL008582, AL353574, AC009244, AC009953, AC020552, AL391122, Z84480, AC011497, Z84469, AP001729, AC011742, AL049840, AF165926, AP001752, AC007690, AC005358, AC004824, AC005080, AL080243, AL109804, AC006345, AC011480, AC005231, AC005911, AC010422, AC004703, AL031985, AC002350, AC010458, AC011455, AL049795, AC008521, AC007216, AP000512, AL009179, AC005006, AP001747, AL022721, AC018720, AL121758, Z99943, AF109907, AC005236,

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HCUFD17	502	847039	1 - 538	15 - 552	AW411095, AA872059, BE300619, BE794826, AA975640, BE300799, BE894434, AI638144, BF690513, AA912573, N90588, AA744906, AW410314, AW589332, AA644693, BE300924, BF220201, AV704791, AI500242, AA130580, AA877956, AU146315, T48400, AA114055, AA001913, AI066573, AI656724, AI862911, AW614509, BE537213, AA811293, C06211, AA157714, AI368953, BE208338, AI864913, AA813756, AI804095, F31474, AA281725, AA053134, AU155115, F35906, H59426, F21731, AW002359, AW168631, T70332, AA736779, AA310828, R95681, AA470433, AW410313, AI983296, F27720, AW196440, AA482345, F24192, BE880594, BF315719, AA634544, BF312403, AV734325, AU126005, BE762401, BE254426, BG255128, AA281903, AA634491, AW103937, BF315604, AW088525, BF998890, BG035725, BF842015, AF183427, AF099149, AJ130978, AK001800, AJ130975, AF124664, AC027141, AC027141, and AP001127.
HCUFD46	503	757481	1 - 586	15 - 600	BE706870, AW474838, BE830347, BE156122, BE706862, BE156129, BE156146, AP000493, AC004792, AL359846, AC004858, AL031767, AC010789, AC000353, AC005899, AC004814, AB023052, AC006449, AC006483, AF109907, AC008482, AC024561, AL031133, AC009032, AL049834, AL121585, AC005368, AP000513, AC011319, AC011319, AC011319, AC069204, and

					AC069204.
HCUFE33	504	637568	1 - 508	15 - 522	AL357835, AL357835, AC023251, AC023251, AL355998, and AL355998.
HCUFJ09	505	821323	1 - 559	15 - 573	AW409731, BF340090, BF527924, AW051802, AI633513, AW167864, AL533261, AU159621, AI936855, BE676156, AI394227, AW188496, BE868618, AI273398, AI870333, AU152825, AI378450, BF689115, AI493382, AI336537, AI261977, AW006652, BE465671, BE220670, AA576714, AI054043, N59291, BF770024, T03371, T03424, AW183133, AA928668, AW070957, AA971434, C75089, AA873864, AI580687, BG027612, T33489, T32966, AA954368, AW008378, AI453617, AA968925, H06725, AI364675, AA954339, Z40656, AI468514, AI372675, R50314, AI027809, R44940, AW798484, AI027815, R50306, R50416, BF881821, AW798918, BE747609, AI372677, BE828625, AI123903, AV682602, BE394938, AA322164, H86556, AA617843, BE393786, AA353506, AA234656, N55646, BE312682, BE770014, AA570641, AI304626, AI284889, AI309342, AA323766, AA627965, D20632, AL137301, AL118506, AK024508, AK023132, AL118506, AL118506, AL356790, AL356790, and AL356790.
HCUFQ58	506	767432	1 - 583	15 - 597	AI674926, AI095735, AW024279, BF196330, AW084957, AW276571, AV704588, AA113166, BF992498, AI921278, BF989719, R79740, BF840525, BF992997, Z18819, AL135297, BF821494, C75484, AI657485, N87188, N83963, N83707, AL133426, U39066, AX009614, AJ243486, U48697, AF045432, AX009612, U48696, AR018815, AF001863, AF061744, AF102850, AF011573, X99056, X99052, Y16299, X99058, X99051, AR091393, X99055, X99060, AX015225, X99057, AC007897, and AC007897.
HCUFQ58	507	861871	1 - 580	15 - 594	AI674926, AW024279, AI095735, BF196330, AW084957, AW276571, AV704588, AA113166, BF992498, AI921278, BF989719, R79740, BF840525, BF992997, Z18819, AL135297, BF821494, C75484, AI657485, N83707, AL133426, U39066, AX009614, U48696, U48697, AF045432, AX009612, AJ243486, AR091393, AC007897, and AC007897.
HCUFX08	508	612843	1 - 1319	15 - 1333	T30864, AA297698, AA553332, AA225358, AA713735, AA745302, BF851059, BE150389, BE156170, AI146266, AW249720, BE156097, BE221034, AA335519, F00949, BE063362, AL047468, F23307, BE138484, AL157544, AW850317, AA953583, AA496309, AI354333, AC007114, AC006012, AL049569, AC008372, AC004216, Z98884, AL137139, AC005368, AC006345, AL117258, L78833, AL109823, AC018642, AC009086, AP000555, AC013451, AF165926, AC006312, AL117338, AL121928, AC004765, AC007546,



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HCUGB76	509	651312	1 - 377	15 - 391	AA514264, AI208351, AW104280, BF686026, AA775073, AA579944, AC020922, and AC020922.
HCUGK79	510	612779	1 - 168	15 - 182	
HCUGQ19	511	637569	1 - 573	15 - 587	AC007615, AC007615, AC007615, AC009093, AC009093, AC009130, and AC009130.
HCUGR26	512	799515	1 - 1616	15 - 1630	T59559, T59513, AL109758, and AL132875.
HCUGR86	513	839653	1 - 2125	15 - 2139	BF764440, BF764423, BF342344, AI343142, AA526113, AI798981, BE070260, BE070199, AI265794, AU122180, T88795, AW837889, AW837886, AW837888, AW837890, AW938149, AW893152, AA976129, H78851, W00508, BF678576, C00582, AA033831, AW250750, N78055, AA115354, AA428733, AA405170, AA910299, AW993403, AW298171, AA115234, C16735, AW135226, AA758595, AI951128, AA730982, AA330117, AA815056, AW798186, AA846642, AI133728, AW361354, AI073834, AA644042, AC010251, AL008634, AL139099, AC005751, AC009478, AC000117, Z98050, AL163283, AL353573, AP000014, AC020913, AC002072, AP000495, AC005378, AC000120, AC005926, AC005019, AC006552, AC007277, AC009229, AL356311, AL139186, AC007165, AC004024, AC004857, AC007189, AC024085, Z99495, AC005900, Z83820, AP001424, AC008170, AC002980, AL035532, AC002367, AL122002, AC016634, AL031671, AL139395, AC078854, AC004050, AL121942, AC007157, AP001730, L31948, AF064864, AL109623, AP001684, AC007917, AL138958, AL133405, AL031622, AL132656, AL138816, AL163247, AL121949, AC024157, AC006317, AC009363, AF130417, AL136992, AC005831, U82671, AP001206, AC022333, AC015541, AC026162, AC005084, AL035652,

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HCUHE27	514	562766	1 - 805	15 - 819	AV708282, AA704752, BE000781, AI720602, AW270597, BF841238, BE153151, AV748598, BE153288, AL049569, AF196779, AC004491, AC005015, AC002086, AC005023, AC005211, AC005356, AC010271, AC011449, AC005722, AC005387, AC004973, AF165175, AC005578, L78810, AC005017, AC004824, AC020908, AC004678, AC021017, AP001671, AC004882, AL031432, AP000553, AC018751, AC009516, AC008521, AC012481, AC012481, AC016659, and AC016659.
HCUHL82	515	610044	1 - 160	15 - 174	AA954835, and AI733362.
HCUHM71	516	825975	1 - 608	15 - 622	R96853, AL359599, AC002044, AC002044, and AC002044.
HCWAK88	517	839083	1 - 1979	15 - 1993	
HCWAL10	518	639023	1 - 1080	15 - 1094	AA077134, AA077505, BF370438, BF370436, AL044889, AA077969, BE716015, BE715978, BE716009, BE715964, BE715942, H64461, BE246364, BF772198, AA077424, BE390594, BE408761, BE390227, BE390575, BF369603, BE007500, BF984281, AI334422, AI436167, AA078368, BE693243, AA077147, BF933135, BF994594, BF994599, AC006014, AC005488, AB014518, AC073841, AC073841, AC073841, AC005236, AC005236, AC005236, AC018720, AC018720, AC018720, AC005488, AC005488, AC005488, AC006014, AC006014, and AC006014.
HCWAT71	519	801985	1 - 2425	15 - 2439	AF047502, AF047675, AC004468, AC016951, and AL133405.
HCWBQ52	520	732039	1 - 845	15 - 859	AV701344, AV744771, AV746385, AV701125, AV701154, AV744773, D80043, AV745831, AV744768, AV746335, AV743601, AV701012, AV718844, AV720464, AV720731, AV701261, AV745724, AV741012, AV701017, AV746162, AV701163, AV745723, AV701151, AV742667, AV721784, D80253, AV737584, AV740535, AV745369, AV701118, AV701428, AV722801, AV742720, AV738934, AV745920, AV701248, AV745488, AV701166, AV701332, AV700229, AV720812, AV744934, AV723927, AV701431, AV745080, AV701043, AV701121,

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HCWCH16	521	847041	1 - 2281	15 - 2295	AL096843, and AL096843.
HCWDM69	522	684527	1 - 1041	15 - 1055	AA584621, AV759632, AA503168, AV755593, AA629540, AI078409, BE704103, F00564, AI620354, AC024168, AP001715, AC006581, AP000039, AP000501, AC007881, AP000107, AL021391, AC007363, AC010092, AL009175, AC005772, AL356299, AL163249, AL158141, AP001697, AL138916, AL022400, AC010291, AL445207, AP001760, AC002381, Z82205, AC008736, AC007850, AC018647, AC007690, AL078461, AC010967, AL121716, AP001707, AC004787, AC008773, AL031010, AC004859, AF191069, Z82183, AC007077, AC002385, AL022717, AC004980, AC004234, AC006509, AC006441, AB045361, AC007537, AP002534, AC007238, AF190641, AC010176, AC006013, AP000217, AC003091, AL133289, AC008745, AP000959, AF088219, AC004675, AL133517, AC004000, AL136418,

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HCWEB38	523	899446	1 - 1165	15 - 1179	BF377052, BF993578, BF993576, AA247964, AA095359, N88601, N88782, H58760, N83168, N83993, N83991, N84855, N89520, N84048, N88496, AA096046, N84718, AA247827, N83992, AA095641, AA096066, N84828, N84830, N84712, AA093861, N86694, AA471338, N55698, AC007597, AR074139, U39066, AX026540, AF102850, U48696, AF045432, AF032922, AJ243486, S78798, AF103726, AR074144, AR083937, AF039698, AX026542, AX026552, AJ401268, AR066487, AR074136, AX026543, AX026547, AX026539, AC007503, AC007503, and AC023826.
HCWEB72	524	639041	1 - 869	15 - 883	AA553465, AL046409, AV719506, AI061334, AA714453, AI344844, AI284640, AI345654, AV740801, AI305766, AW511743, AI471481, AW276817, AV735370, AI963720, AW769399, BF939954, BE042649, AV764307, AW193432, AI866856, AI688846, AA074130, AA581903, AI379719, AI431303, AV760937, BF854876, AI375710, AV719422, AI350211, AA491814, AV763354, AV759382, BE350475, AW301350, AW303196, AW438643, AW274349, AW193265, BF805147, AW339568, F18638, AA350859, AV719316, AA630030, AW162049, BF036387, AA134367, AW833862, AI929531, AI358343, AA448231, AV762139, AA452563, AI281881, AI053672, AA664015, AI801591, AI198376, BF668217, AI792287, AI298710, AI580652, AU148124, H70615, AV763255, AW029038, AI339850, AI281697, W79504, AA810370, BE047069, AI471464, AW080134, BE787738, AA713815, AI017024, AV762111, AV710066, AV760774, AA599920, AA719805, AA610491, AV763971, AW474299, AI801600, AV762826, AV759274, AV761786, AI890923, AI049722, AI471543, AW261871, AI499938, AI365988, AV759204, AW406755, T07451, AI610159, AA469451, F29989, N25296, AI567674, AI133636, AA649642, AI151261, AI143242, AI962050, AI160117, BF940837, AI251436, AA594145, AI635818, AV760624, AW503666, BF919090, BF918590, AI619997, BF915839, AA426277, AW517377, AA604897, AI937850, AW102955, AA515224, AW778859, AW504669, BF896102, AW063117, AI358229, N55273, AW472872, AI282832, AA640772,

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HCWEF04	525	899865	1 - 369	15 - 383	AA291181, AI968534, AA805949, AI828560, AA485105, AI804964, AI160696, AI679941, AA617729, AI679431, AW591125, AW137069, AI753759, AI634469, AW084061, AI524669, AA936742, AI342020, AI491835, AW117952, BF793203, AI620831, BF663332, BF317098, AI584075, AI081997, BF969372, AI127422, AW612898, AI075437, AW079666, AW075668, BE328679, BG057394, W19345, AI250154, BF339455, AA687230, BF664372, AW517515, AA885729, AI434266, AW275835, AW662453, AI270594, AW440481, AW572612, AI080589, AA430030, AW873781, AW103985, AI921392, AW151516, T29193, BE327878, AI635893, AI452572, AI028180, AA496676, AI581194, AW467394, AI687734, AW512551, AI951184, AI580977, AI434009, AW169726, AI275949, AW192303, AI539149, AI433253, AI752877, AA614614, AW029135, AI572078, AU154424, AW196931, AI393070, AW009573, AW103350, AI688938, AI635923, AI702092, AW474523, AI445921, AW074096, AI624703, AW518955, AW088543, AI924341, AW518738, AI690998, AI433086, AW469337, AW151262, AW150350, AW104692, AW474481, AW262129, BE045824, AW512574, AI539257, BE301704, AA453493, AW513753, AI520854, AI446505, AI921376, AW474802, AW170679, AI246879, AW305151, BG260312, AI358671, AI653817, AI536810, AW130880, AI620842, AW779513, AW001868, AW473004, AI921647, AI818232, AW132127, BE042394, H08564, AW337851, AW074177, AI921397,

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HCWEI82	526	799516	1 - 643	15 - 657	AI754257, BF746686, AA524604, Z92542, AF196970, AC009314, AC006028, AC002991, AC027319, AL136418, AL035681, AC008155, AC005527, AC003109, AL031587, AL050349, AP001711, AC004755, L44140, AC005829, AP001710, AL109804, AP000133, AP000211, AB017602, AP001627, Z93015, AL050335, AC005529, AC004408, AC002504, AC010605, AL139109, AC006449, AC004966, AP001747, AC004382, AL022323, AL121601, AC011495, AC005099, AC011452, AC008551, AC007850, AC008982, AL022237, AC011480, AL117337, AC007371, AC004060, AC004060, and AC004060.
HCWEM96	527	812735	1 - 1887	15 - 1901	
HCWFJ16	528	826606	1 - 361	15 - 375	AC002302, AC002302, and AC002302.
HCWFJ16	529	861854	1 - 361	15 - 375	AC002302.
HCWFK03	530	562028	1 - 289	15 - 303	AW439817, AW439844, AA533476, AI493164, AI435348, AC005034, AC005034, AC005034, and AC005034.
HCWHD30	531	834724	1 - 796	15 - 810	AV709806, AW500684, BF984651, AA858372, AW270771, AW148507, AA502991, AL135357, AI344948, AA845659, BF111583, AW576326, AV760019, AA228349, AA595499, AW576485, AA613627, AI962030, AW969667, BF837190, AA700943, AW438542, AI732151, AA720732, AI253987, T49633, AI290405, AI524360, AA828637, AV763417, AA846935, AI755214, AW832985, T67090, AV762957, AW504126, AI382825, BE156651, AV703785, AC007597, AL035249, Z93017, Z85986, AL034405, AC011811, Z93241, AC011484, AC010789, AC008764, AP000212, AP000134, AP000030, AL008729, AC010513, AC004996, AC027319, AL035414, AC020916, AC018663, Y14768, AL096700, AL356354, AP000505, AL139352, AC005088, AL050349, AL096701, AL391385, AC004166, AP000251, U91321, AC005488, AC004089, AL121655, AC005736, AX039602, AL136300, AC011464, AC005081, AC008812, Z94044, AL160313, AC007688, AP001609, AL352979, Z84487, AL136170, AC005056, AC006014, AC002073, AC008155, AC004408, AP000557, Z94056, AC006261, AL096791, AC005102, AC022509, AL050332, AC006111, AL139396, AC021999, AC004491, AL117350, AC020754, AL442167, AC005098, AL109935, AC004990, AC007240, AC000085, AC005015, AL161781, AC008848,



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HCWHT34	532	692400	1 - 1242	15 - 1256	AW005866, AI821362, T92343, BF304567, T92323, BF307553, AI820515, BE298111, T92316, T92329, T92365, T92393, T92372, T92378, AA631507, AW026305, AI421950, AI419337, AI361090, AV758870, AA515617, AW270385, AV761107, AW194325, AV760014, AW408767, AW265688, AI890324, AA857812, AA569206, AL042667, AL042670, AA557945, AA828834, AA569471, AA506734, AW237905, AA916430, AL117348, Z85996, AC005291,

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HCWHT52	533	834618	1 - 643	15 - 657	AV645401, AV681500, AV645332, AV645383, AV645389, AV645377, AV645379, AV645385, AV645369, AV645380, AV645321, AV681527, AV645390, AV681501, AV645400, AV645392, AV645393, AV645404, AV645353, AV681458, AV681492,

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HCWKO32	534	610619	1 - 612	15 - 626	BF736780, BF769371, AI499503, AA557879, BG014866, H64777, AV759204, BE552156, AV720649, AA338431, AU147104, AV762645, AI679713, AV759267, AW074398, BF887156, AI648558, BE676932, AI493546, AV728928, BE092029, AA826032, BF901544, AA302732, AA327782, AI612032, AA745410, AA626678, BE243412, BE540527, AA515435, AV738722, AV740060, BE152094, AA663306, AA347927, AU158588, AI281881, AI824562, W56200, AI287284, AW503415, AA077817, AI184226, AA919037, F29989, BE881449, AW022046, BF904928, AI921188, BF678323, AA177061, AA115968, AA594145, F36273, AV691147, BE674881, BF814611, BF908593, BF816014, AW151884, AI610159, BG058664, AU120875, BG010083, AA364903, AA654627, BF940837, AA828856, AI357477, N71724, BF946625, AI284640, AW303876, AW504826, AW472847, AI872421, F37223, AL120483, BF812562, AW472872, AI761471, AV695579, BF922659, AV695577, AF074677, AI561335, BF674260, AA179136, AL041368, F32705, AV726545, BF212686, AA743956, AA302963, AW383634, AV760466, AV764329, AL138265, AV683587, AV687695, AV691142, AA347930, F19258, F25135, BG258655, AI679139, AI358229, BF841882, AW265197, AW339568, R72392, AW406755, H64560, AA079528, AA059154, BE878923, AI365988, BG249643, AU146522, BE205860, AA366820, BE349302, AI148245, AV686551, BE811408, AW063117, AW339687, AU146189, AU145473, AI672135, AW518081, AW474152, AI635272, BF813183, AU118200, BF813806, BF681427, AW836456, BE909262, AA366035, F36373, AU120185, BE293802, AV729000, AW957586, AA558697, BE304890, BE293845, AU117276, AV758600, AV725974, AA515224, BE049073, AA641103, AA621704, AI270343, BF807784, AW086257, AV757607, AI624698, AI469624, BF951287, AA443390, BE061146, AA747472, BF848368, BE139371, AI623898, AW515425, AW904595, AW023672, W45336, AI560063, AI439360, BE072041,

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HCWUF93	536	752279	1 - 794	15 - 808	AL044078, AV650434, AI669717, AI823616, BE220043, AA825741, AI681657, AA682493, AI934924, AI492105, AI683736, AA527119, AA237013, AI630185, AW513714, AI280801, AW054666, AW028903, AA938170, AI290193, AA993401, AA416992, AW166763, AA593853, AA282882, AA088707, AA176497, AA903341, AA922408, AA749276, AV738457, AA194962, BE676564, AA401456, BF110932, AI867755, AW015908, AI269375, AA605135, AA557533, BF935257, AA907256, AW075534, AA470057, AI926743, AA767934, AA319737, AI671728, AV743089, AA938477, AA195597, AA885689, AI933913, AA714846, AW242270, AA731624, BF904567, AW613888, R44284, AL044031, AV693239, AI800860, AA761887, AA326594, AC008982, AC008982, AC008982, and AC008982.
HCWUW24	537	799517	1 - 1286	15 - 1300	AV762640, AW962981, AW955169, AW963613, AW962181, AV647560, AW962217, AW961834, AW962044, AW964130, AV705147, AV707822, AV703284, AV724014, AW956191, AV706047, AW959609, AV733736, AW954352, AV709937, AW956299, AV703493, AV705432, AV722843, AV703978, AV646736, AV646675, AV706326, AW970036, AV653809, AV731709, AV723273, AV707510, AW968150, AW968340, BG009504, AV708850, AI356440, AV701449, AV754402, AW951204, F35684, AA877992, AV763058, AV763026, AV727766, AI271985, AW057719, AV708720, AA523695, AW023111, AV729927, AW502873, AW962611, AW970535, AI185394, AV759632, AV728676, BF854308, AW963219, AI569401, R82650, AV684811, AV757223, AA809089, AW467607, AW268757, AA622479, AV702146, T06598, AA219349, BE675695, AW089589, AA857812, AW966777, AA720567, AL133344, AP001693, AL139812, AC006013, Z98304, AL121749, AC013434, AC005078, AL163285, AL137011, AL442167, AC009179, AC003962, AX001082, AC005284, AL117187, AL031584, AC004448,

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HCYBA32	538	847042	1 - 2078	15 - 2092	AL524028, AL532725, AL536824, BF980699, AW411314, BF967791, AW337246, BE793283, AW273163, AW305004, AW605330, AW129472, AW953956, BE328026, BG058737, AI347938, AW819653, BE646353, AL524029, AW473350, BE349631, AW515953, BE245501, AA115665, AI827218, AL045571, AW513876, AW517499, AI806347, AA707194, AW467330, BF724497, AW242161, AA569120, BE939500, BF436590, BE464930, AL044787, AW806669, AA115666, AI871831,



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HDAAV67	539	637571	1 - 629	15 - 643	BE048361, AI471796, BF437135, BE671018,

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HDABR74	540	861789	1 - 1882	15 - 1896	AL532817, AL530229, AL527076, AL530228, AI878957, BE378962, AU125589, BE898909, BG177941, BE743234, BG253318, BE393891, BE799908, BE621874, BF982370, AW580431, BE261725, BE621211, BG164655, BE395197, AL118630, BG024243, BF038048, AW150953, AI669821, AV702785, AU125047, AU125910, AI651619, BE549329, AW006923, AI567453, AI651625, AI653428, AU154328, AW939298, BE742901, AU148438, AU146897, AU153285, AU153257, AI652764, AU153260, AU148801, BF034259, BE393459, AI969800, AU149475, AI685468, AU153503, AW249784, AW237004, AA737995, AU152551, AI435048, AW085492, AA398257, AU153668, AU124614, AA683516, BE502142, AU154658, AA429396, AU153527, BE047742, AU148792, W87472, AI288677, AI190356, AA160364, AW955945, AI400394, BE537695, AW027451, H59653, AU152459, BF593713, AU153147, AV710490, BF800485, BF801740, BF762217, AU152984, AI690960, AI888720, BF970752, AA781972, AI968905, AA443525, AA188832, AA503528, AA188795, AA599455, AA923356, AI200950, AI610807, AI913455, H59613, AA070844, AI183635, BG255397, AI285221, BF030167, AA282516, AI034087, AA070075, W05001, AA970494, AA524442, AA282412, W87507, AA678013, H04989, AA017353, R88150, AU125061, H09665, H09710, N70359, R61101, AI042444, AI022413, R50345, AW997153, R61824, AI370888, H04990, R87706, H97015, AI359110, T67482, AA775663, H69421, AA313400, R50008, H69324, W87479, AA704505, AA627585, AA399209, AI203117, AA357609, AU153407, AI689711, N57922, AA351881, AA464773, AA514515, AW068649, BF760961, AA599359, BF092024, AA743498, AA464182, AA328114, AI526087, AA302341, F08418, AA292187, BE076148, BF850378, BF824929, AA336925, R16081, BE076162, BE390816, AW295514, AA566025, T67599, AA343352, AA300253, AA364447, AW235924, AA017586, BE880588, AA861245, N68101, BG179364, BE740791, AI192049, AA834440, AU131862, BF817269, AW806469, AA471295, AL532112, AI026700, AL520021, AI682081, BG169185, BE171393, AI521555, AL119180, AU124763, AL526917, AU131837, AL532869, T74264, AF062481, A98295, AF034544, AF096305, AF067127, AF110060, AF071500, AF057368, and AB016800.

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HDACJ52	542	608197	1 - 828	15 - 842	AW964803, BF792666, AL533332, BE253786, BE407114, BE962229, AI089623, BF980155, BE222993, BG027029, AW084683, AI889062, BE044641, BE250893, AA480317, AA016294, AI762861, AI127518, AI268391, BF590262, BE767785, AI694589, N91275, N92888, AW469187, AI554771, AI337193, AW872855, W27835, AI310006, W46283, AI871040, BG027058, AI127061, AI361964, AV727835, AI366664, AW873391, AI953215, AI362829, AI091700, AI147869, AI871315, AW007682, AA166880, AI401756, AA156451, AA740548, BF954822, AL138149, BF446497, BF964087, AI139562, BG059726, AI026899, AA460774, AW770230, AA063172, AI697218, BG170310, AI419449, AI025896, N95460, AI690908, AW025561, AI205852, AI423427, AI539801, W19754, AI696982, AI499552, W51906, AA729644, N72021, AI245553, AI626097, AI399978, AI625273, AI248536, BF941716, AI333247, AA908161, AI492608, H43145, AA452880, AA975675, AA553939, H50133, AA948712, AI073651, AW008864, AA613295, AI698638, AW956636, AW028685, AA358182, F21173, W25568, AI193403, AI193441, H42379, AI619527, AA836467, H38092, AA613947, AW866208, AA326282, W04311, W25200, AA460223, AW292347, AA830652, AW956631, H05793, AA400858, BE392480, R16816, AA365316, AI202643, AI420983, AI954349, BF062819, AA460345, AW866204, F16722, BF373944, F35265, AI880195, W52492, AW363972, BF477671, AA328096, BE859078, AA363927, F26187, R42514, F30318, AI783778, AA063171, T49887, AA019577, AI368528, AI057163, AA398806, AI401051, AW005410, AI561017, AA650027, AA358183, AA331207, AI819281, AA975864, AI869961, AI968004, BE888018, BF514283, AI954757, BE066520, AA453051, AA341816, BF082467, AW393153, BE827688, BF475699, AA092972, N88967, N84276, W26817, D25634, C21342, R16519, BE271490, AX011692, AF057297, D78643, AC073177, and AC073177.
HDCBM09	543	894702	1 - 405	15 - 419	BE621256, BF811802, AW827214, AW080298, AI922550, BE964664, AI699011, BE964876, AI925404, BF812961, AW082088, AI249877, AW152182, AA769453, AI719817, BE965347, AL046595, BE966505, AI472566, AW028442, BE544111, BF339322, AI952249, AI745684, AI648567, AI805638, AI921248, AI244380, AI446124, AI476620, AW131112, AI619662, AI679891, BF817418, BF819891, BE964514, BG107576, AI690748, BF909758, AL037582, AL037602, BE967081, AW083189, BE965359, AA835801,

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HDFIB37	545	821339	1 - 1610	15 - 1624	AL537599, AL537598, AL532702, AL532742, AW292500, AI359283, AW293098, AI983352, AI983360, AA351654, AI903544, AI903141, T33847, AI903142, AA886198, Z44473, Z41695, and AL042519.
HDFMB91	546	637574	1 - 210	15 - 224	AI583578, AI678446, AL513693, AI933992, AI475909, AI624971, AA514684, AI470717, AW169234, AI370322, AI440444, AW163464, BE965621, AI090346, AW262491, AI289863, AL045579, AI744204, AI539800, BG255160, AA730996, AI700358, AI624956, BE962759, AW959800, AI360195, BG109125, AI249946, AI745316, AI473799, AW105459, AW150578, AI537677, AL514543, AW008226, BG105099, BE084795, AI802240, AV681784, AI480104, AW189196, BF970162, AI696611, AI627893, AA504514, AL138457, AI538085, AI824746, AI538764, BF816166, AI684164, AL514359, AI860817, AW193026, AI440284, AI609181, AW191844, AI499623, AW170663, BE963777, AI273886, AC019210, AB047943, AK025407, AB047631, AL353745, AF119909, AF159615, AF131773, U78525, AL133619, AL122050, AL137294, AL359583, A18777, AC005876, U83980, AL080150, AL157768, AB041801, AR038854, AK000344, A65340, AF130066, AK000603, A32826, A30330, A32827, A30331, AL355701, AK025708, I66342, AL080148, AF030513, AX006092, AB034701, AF061981, A90844, AF177336, X80340, S77771, AL133084, AK000636, and AP001666.
HDHAA55	547	799518	1 - 1553	15 - 1567	BF948738, BF434018, Z97653, and Z97653.
HDHEA33	548	847044	1 - 1667	15 - 1681	AL514150, AL522729, AL513592, AL530368, AL521079, AL513596, AL521078, AL513591, AL524794, AI986072, AI344343, AL526704, AW149543, AI199218, BF980037, AL514149, AL530059, AW167223, AW005751, BF439195, AL526735, AL527793, AW519137, BE388177, BG170770, BE792672, BG164903, AW411441, AL515342, AI571283, AW276343, BF972521, AW575607, AL529981, AW571465, BE312779, BE221261, AL529982, AW575121, BE278913, BE892189, BF972769, BF025926, BE871618, BE293053, AA917336, BF477688, BF312876, AI381039, BE727639, BG164349, BE395780, AI401053, BE887986, AW270828, BE563439, AW411442, BE274646, AI590704, BE385496, BG168143, AW964323, AI445234, BF183088,



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HDHEB12	549	610260	1 - 683	15 - 697	BF530750, BF931923, BF926696, BF926693, BF530894, BF932587, AF217412, AB040913, AF217411, AF217413, U41663, AJ239319, AJ239319, and AJ239319.
HDHEB80	550	809087	1 - 719	15 - 733	AL514473, AL514691, AL514627, AL513779, AL513907, AL515191, AL513631, AL514919, AL514087, AL514543, AL513597, AL514791,

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HDHIA26	552	637575	1 - 1647	15 - 1661	AC022858.
HDHMA71	553	684448	1 - 1322	15 - 1336	AW974472, BF964692, AI631210, AW294775, BF573249, BF437696, BF515237, BE866060, AL120594, BF691253, AL120589, BF208136, AW966320, AI982951, AI458150, AI242315, AI041496, BF221561, AW020608, H99704, AW050496, AW594750, AW469149, R64240, R68611, AA648759, AA339622, D61976, AA193546, R64137, AA035304, AA828960, AA034954, AA663669, AV681848, AA934786, BF208063, Z70762, AL121865, AC009822, AC019299, and AC025918.
HDLAL94	554	843583	1 - 3555	15 - 3569	AW274697, BE880908, BE676472, BF949509, BG032269, AA922226, BF769475, AA939344, AI079331, AA621363, BF241369, AA430064, AW473362, BF102696, AI129394, N48364, AW516540, BE870485, and D17091.
HDPAB86	555	901851	1 - 2060	15 - 2074	AL524661, AL535002, AL524662, BE622566, BG251761, BE897001, BG105206, AI114692, BE876142, BF347493, BE874266, AI628547, AW196869, AW008204, AI924993, BG180598, AI949382, AI890913, BE301793, BE089977, AW613268, AW190907, AI983089, AI862739, AA610594, AA100219, AW057656, BG117706, BE908130, AA587600, BE966689, AI810787, AA171834, AI435642, AW244060, AW518356, BF507398, AI968793, BF326992, AW270448, D19683, AI915178, BF088999, BE074944, F24299, AW591758, BF088989, BF754600, BF149116, AI784001, AA248861, BF888927, BF889002, BE177593, BE090135, AI741406, AW935805, AW935803, AF244135, AJ272197, AF116631, AC004253, AC003041, and AC005532.
HDPAE80	556	778068	1 - 1996	15 - 2010	AL533448, AL516133, AL535055,

					AA639795, BE646614, AI087302, AW005794, BE748583, BG112327, BE537310, BG254250, BG117234, BG179923, BE748709, AI570538, AA707316, BE858429, BF966738, BF435089, N91483, AA458512, AI936299, AA778453, AW954524, AA434163, AA613471, AA609573, AA703193, AA398788, AI143039, BG235962, R71427, AI077418, AA693738, AI056505, AA576380, AA968855, W57950, AA454594, AA974306, AW055214, AI056593, AI051026, N42503, N23311, AI660593, AA026383, W35234, AI434657, AA465180, W58083, AA465541, N32471, N49754, AA926949, AA406469, AA926948, AW954328, AI084685, BG118725, H97739, BF217810, N50911, BE832971, N29812, AA406374, AA524008, AA295978, AI122591, R81878, AI570967, AI125855, AA349495, AW148989, R71084, BE042684, T49967, AA533671, AW150231, AI289473, AI289383, BE302303, Z33444, R77820, R94292, AW130269, AI801338, AA622299, AA485999, AW192952, AI630674, AA554903, BE541622, H84523, T32591, H19837, AA628074, AA878330, AI017995, H84208, AW044007, AW954320, AA811415, AA523295, AV744867, AL119097, T49966, R94193, AI276431, AI096693, AA365905, AI701255, R78192, Z40652, BF448989, H21215, H60384, AA651740, AL046173, AI468233, AI581049, AA026373, W19870, BF765223, R81780, AL517023, AA679968, AA814362, AW974655, H60345, C02344, H28166, BF571020, BF955336, F07598, AV736582, N52682, BE676302, H23784, AI535911, AA400853, AA349496, AW807879, AI579925, N64456, W23779, AA488624, AW878770, AW878765, AW878633, AW878766, BF815243, AW276407, AW878630, AW878724, AW881514, AA631363, AL535056, BG180117, AW878767, AW878769, AW845321, BG178471, AW294039, AW878768, AL134524, AA302871, AI432644, AW794295, AI623302, AI431312, AL533492, AW858522, AW968355, AI431307, AI431316, AI431310, AI432666, AI431230, AI432653, AI431328, AI431323, AI432654, AW081103, AI432650, AI432677, AA332121, AI432655, AI431238, BE672759, AW878791, BE672745, AI431353, AW601637, AI431321, AI431347, AI431354, AL045327, AI186116, AW968729, AW968356, BE672644, AW577201, AA580880, AW971740, AW972093, AI431231, AI431257, AI791349, AI431315, AW577199, AI431235, AI432661, BE672732, AI431337, AI432657, AI431246, AI431247, AI492519, AI432675, U46344, AW128900,
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					BE672719, AI431350, AI432651, AI432647, BF448552, AI431318, AF161521, AF042346, D84430, AF123263, AC009405, AX030435, AF019249, Y17793, AR071207, AX030436, AF064854, AL133074, AL133049, AL133053, AL133076, AL122101, and AL133068.
HDPAQ86	557	612855	1 - 1412	15 - 1426	AW082552, AA704393, BE154789, AW957372, AW968356, BE350261, BE154726, AL049539, AL139109, AC006270, AC008551, AC004706, AC005840, AL109758, AL137013, AL357752, AL137787, AL163301, AC011815, AL160033, AJ011930, Z94801, AL133240, AC009953, AC024947, AL136980, AC022493, AL049794, AL049835, U96629, AC003029, AC018816, AL391839, AL163201, AL157931, AC006482, AC002288, AC002351, AC005244, AL139812, Z93015, AC068999, AC004125, AL109939, AL035669, AC004234, AL356513, AL138759, AC009079, AC016395, AC008471, AL445435, AL135924, AL157877, AL096677, AL117334, AL158828, AL158159, AJ251973, AC009481, AL133480, AP001731, AC004104, U80460, AL390039, AC005192, AL138761, AL136319, AC005905, AL160231, AL158824, AC005703, AC005229, AC018719, AL137918, AC004980, AC013429, AP001724, AL136504, AL133445, AC010087, AL009174, AC007000, AC002525, AC004552, AC006071, AC004491, AC008774, AC009510, AC006050, AL445669, AC004531, AL035427, AC006017, AC007878, AC012309, AC005158, AP001675, AP000688, AL163300, AC003100, Z93244, U52111, AC007671, AC004638, AC004492, AC007099, AC019050, AF205588, Z98946, AC010719, AC022013, AC006006, AC007619, AL035460, AC002357, AL022328, AL163247, AC007637, AL133453, AL022158, AC004020, AL157827, AC007097, AC006430, AL391122, AL033521, AL132825, AC007271, AC007993, Z83838, AL163303, AL139188, AP001068, AP001689, AC019227, AC023281, AL031670, AC018758, AC022401, AC008543, AC005288, AC004000, AC008736, AC008536, AC018738, AL163278, AP002533, AC004883, AC073325, AC019230, AL021397, AC005846, AL133249, AC009286, AL133411, AL355836, AP001712, AC016597, and AC006515.
HDPBD56	558	791784	1 - 2368	15 - 2382	BE561181, AV651283, BF797982, AV650123, AA682502, AV650052, AI949179, AI590070, BG236184, BE883985, AA699672, AA016186, AI935783, AA046905, AW960199, BE501235, BG058594, AW119033, AI151517, AI261753, AW118715, AV651658, AI151457, AW351802, AW298477, AI475579,

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HDPBN48	559	838593	1 - 1721	15 - 1735	AI083689, BE389727, BE390985, BE388922, BE388453, BE389752, BE410120, BE389948, T05706, BE389145, BE386347, AV738397, AA586423, A61271, A61272, AF134707, AF019887, AP002898, D50410, AC008551, AC003013, AL109624, AL354811, AC009731, AC084693, AP001728, AC004965, AC008764, AL022329, AC006430, AF215937, AC010422, AL049759, AJ400877, AC008738, AC005049, AC005210, AC008676, AC008676, and AC008676.
HDPCG79	560	691350	1 - 1567	15 - 1581	AL535189, AI633229, T82628, AW514699, AA612855, AI174372, BE280878, BE297955, BE901018, AL533632, AU127380, AL536443, BE731067, BE909752, BF308222, AA931550, BE266395, AA280318, AK022812, AC019327, AC019327, and AC019327.
HDPCV29	561	567228	1 - 1212	15 - 1226	T86850, T86849, AF130343, AC010197, AC016651, Z82216, AC006155, AL031585, Z98172, AL121877, AL035464, AL354793, and AL031116.
HDPDA36	562	827283	1 - 3826	15 - 3840	BF574664, AI378402, AI580140, AI073591, AW043598, AA948035, AI183427, AA876144, AI434314, AA861325, AA598436, AA001743, AA001934, AI074581, AI056824, AA450207, AU149065, AA609945, T28621, AA931963, BF930512, BE895435, R39256, N78699, W07035, F10835, BG111771, BF693920, AA210789, AI289487, AI472452, H24752, N77949, W20368, AL522434, AA911121, AA036943, AA558593, AA436626, AA523154, AI783999, AA613800, AA780089, F09873, AW084433, AI271874,

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HDPDC59	563	872451	1 - 2229	15 - 2243	<p>AA129718, AA133240, BF509250, AW136977, AL134524, AL119511, AL119399, AL043152, AL043168, AI431323, AI682915, AW193598, AI863210, BF812963, AI804505, AI815239, AI500659, BE883591, AI866465, BG167830, AI815232, AI866691, AI801325, AI500523, AI538850, AI887775, AI582932, AI590043, AI923989, AI872423, AI284517, AI500706, AI491776, AI445237, AI289791, BF811804, AI926593, AW151138, AI889189, AI521560, AI500662, AI285417, AW151974, AI623302, AI539800, AI582912, AW172723, AI284509, AI538885, AI889168, AI440263, AI927233, AI866573, AW058275, AI633493, AI434256, AI866469, AI434242, AI805769, AI888661, AI500714, AI284513, AI888118, AI285439, AI859991, AI436429, AI623736, AI355779, AI889147, AI581033, AI371228, AW194509, AI491710, AI431307, AI440252, AI440238, AI567971, AI866786, AI924051, AI860003, AI610557, AI431316, AI242736, AI539260, AI828574, AI887499, AW151979, AI539781, AI431238, AI539707, AI702065, AL514229, AI885949, AI285419, AI559957, AW089557, AI521571, AI499481, AI469775, AI433155, AI866581, AW074057, AI567953, AI815150, AI446495, AI889191, AI867068, AI952433, AI225248, AI358271, AI798359, AI872315, AI932620, AI698352, AI282249, BF345716, AI371229, AI434233, AI371237, BG120398, BE885490, AI494201,</p>

					AL134920, AI924024, AI537677, AL513637, AI440260, AI890472, BG176609, AW804686, AI866458, BF815930, BF812438, AI371251, AI866510, AL515149, BF038742, AI866461, AI432644, AI923046, AI431315, AL047422, BE897632, AI799568, AL048403, AI500526, BF965904, AI955221, AW151132, BF811802, AL047398, AI433971, AI539771, AI927252, AI500711, AI889149, AI289386, AI828585, AW151136, AL514833, AI225249, AI890907, AI355008, BG252929, AI539865, AI289747, AL535227, AI554821, AI561170, AI469764, AI690946, AI648567, BE887422, AI433157, AI687588, AL514503, AI934065, AI049859, AL514141, BE876645, AI362495, BG179183, AL122081, AY010111, AX030435, AJ251859, AR034821, AL133655, AX040958, AL356288, AX040974, L04859, U30290, AR015970, E13998, AL049423, AL133051, AL133084, AL133070, AX041002, AR054110, AF084644, AF084645, AK000559, AL133053, AL133049, AL136975, AL133076, AR055519, AF065135, AL050393, AL133607, AL122101, AL133015, AL133608, AX015526, AF002985, AC020908, Z35309, AC024067, AL035086, AK026182, and AL122049.
HDPFG13	564	637580	1 - 1621	15 - 1635	AU134042, AL134369, BF058293, AW880893, AW880887, AA621725, N67816, BE832810, W03420, AA937154, AI948736, BG166817, AI375475, AI565599, N48790, AA723585, AI040911, AW612960, AA173226, W69978, AI916881, AW131632, N48984, W32190, AI708677, AW881226, N51417, BE857458, AA534505, F36507, AU155156, AW955646, AA216779, AW512251, AV712527, AI826372, AW473778, H56128, BF515622, BE885409, AI700310, AI932476, AA883169, AI084247, AI364560, BE544715, R79794, N62650, R63317, AI053445, AI445815, AU147922, AI056066, AA524832, AI246796, AA501614, AI859834, AW088846, AL045709, BE302974, BF989483, AI061313, AI471815, AW337454, AV762047, BF031479, AI859946, BG164166, AA492313, AV763401, AA857486, AI732151, AI174230, AI979005, AI336054, AA634786, AA666332, AA720732, H98548, AI291823, AV761519, W19764, AW029095, AW613805, AV763343, AA663966, AI865213, AI733856, AW805539, AW020088, AI291317, BF885741, AA602906, AW819626, AW023672, AI039809, AV763240, AW270258, AL046782, AI355587, AI312790, AU153921, AW975095, AI370475, AI354423, AK023349, AC004069, AL162831, AL162272, AL121749, AL035450, AC005013, AC005540, AC007488, AC005755, AL050335, AF317635, AC004867, AC004166, AL133453, AC011495, AC006480,

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HDPFK27	565	825903	1 - 1519	15 - 1533	AA176967, AW979153, T48435, AA826015, AC016821, and AC011010.
HDPFZ05	566	824390	1 - 2171	15 - 2185	BF838866, AI699349, AW204962, AW503822, AA019595, AI243314, AI371175, AW576250, AW182636, AI671874, AI678153, AW968853, AA825663, AA490910, AA836205, AC007285, D83777, AC007285, and AC007285.
HDPGA84	567	833050	1 - 1105	15 - 1119	AW976111, BF438417, BE326988, BF448233, AA947739, BF590341, AI400455, BF845914, BF792090, AI079804, AW615210, AW270919, AI435830, AI452944, AW611916, AA747433, AW207124, AI580309, AI338445, AI272895, AI499408, BF110651, BE467219, BE549725, AI917984, AA282725, BF970338, H01411, H00875, AI565322, H01410, R74104, AA831514, R61345, AW150637, N69359, R74103, H00874, AI739220, R31153, AI864092, BF087200, R31104, BF378961, AA085178, AL513597, AL513817, AL514627, BF724691, AL515047, AI475371, AL121365, BG058208, BG260037, AI815383, BG257535, AL514473, AL513907, AL514791, AL514935, AL045500, AI633419, AL514087, AL513763, BG179993, BF970162, AL119049, AW104724, AL514155, BF726297, AL514129, BG109270, BE048319, AI682743, AL047042, BG031815, AV655645, BE048131, AV682772, BF969494, AI536685, AL513977, AL514691, BG108147, AI580190, AW827203, AV681668, BE048071, AI802542, AL036146, AL515041, AW303152, AV757018, AV654624, AL513803, BF054877, BE881155, AI349772, BE880190, AL036802, AV682249, AV682441, AW274192, AL515373, AL121270, BF107577, AV710479, BG180996, AL514919, BF107573, BF883916, AV723772, AV755668, AI612913, AI906328, BE047863, AV711924, AV682289, BF882343, AV681630, AW080838, AV682252, BG036846, AW071349, AL513631, AL515413, AL047763, AV758110, AL036396, BF968493, AW301409, AV755613, BF981774, AV682476, BF725868, AL046849, BF037097, BE964633, AL514357, BE048179, AI697137, AV723953, AI687728, AI684265, AI445432, AV723204, AI635461, AI613017, AI907070, AI625079, AI250293, AV682266, AV758806, AV757737, AI868831, BF673434, AV682051, AV682222, AI682106, BF795712, AI564719, AW166645, AV733397,

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HDPGR80	568	844812	1 - 2594	15 - 2608	AL523244, AL523245, BG254539, BE910530, BG180053, BE617069, BF981567, BE617583, BE274037, BE869704, BG164635, AI954734, BE782018, BE617262, AI654085, BF447016, BF447063, AV761906, BE842725, BF970261, AI744648, AW958377, AW955354, AA634247, AW813039, AW798311, BF038071, BE617762, BF857558, BF061730, AA534298, BF245088, AA699827, BE773669, AI887741, AA533634, AW368155, D55829, AL523717, AI922138, AW167831, AI279936, BF063761, AW262674, BE537969, BG236145, BE301982, AI423352, AI700418, AA581833, BF437836, AA919148, AA999949, AI126931, AI140149, BF107305, AI801918, AA621185, AI472297, AW449075, AW152232, AI452929, AI372074, BE018185, BE351026, AI475504, AI831687, AI925013, AI373229, AA814095, AI468468, N90517, AI277894, N80236, AI963330, AW662893, AA056038, AI766243, AI186508, AW003316, BE301664, AA453414, AI393716, AA860595, AI590847, AI358097, H58652, AL523716, BE773717, AI796335, AI076909, AI619943, AA601880, AI025797, AA056009, AW594294, BF331953, AI954221, BF771035, AA043013, H19369, BF915647, AI097599,



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HDPGU14	569	832543	1 - 2308	15 - 2322	AL534762, AL514716, AL534763, AU123694, BE748943, AU137576, AU134436, AU139027, AU139181, BE890560, BG167995, BG168051, AU136371, BE892201, BE620505, AW614531, BG260863, BE748622, BE896832, AU137970, BG031559, BG115582, BG168096, AV685497, BF057556, BE894707, BF971025, BE748641, BF978012, BE888645, AV685356, AV688351, AL135061, BE891762, BE889493, BE619363, BE891532, BE892340, BF691082, BF970048, BE890789, BE560253, AV690411, AU138903, AV730389, BF692659, BG180268, BE543755, AV689525, AV698974, BE874890, BG033862, BG164244, BF978974, BG111210, BE868449, AW951747, BE891631, AW994052, BG109049, AV728711, AW574885, AI064944, BE973698, BF211443, BE568796, AV681752, BE738735, BE737901, AW237474, BF185377, BF103661, BF791725, BF210923, BE748096, AV717875, BF240529, BF213315, BE884673, AV717891, BE866646, AV714283, AV717553, AU139687, AV733933, BE748074, BG116151, AV647567, BF102602, AV694807, BF215424, AI302820, BF243856, BF978973, BF573607, BE910644, AA573200, BF573734, AL514715, AV695757, BF977648, BF240630, BF672500, BF540781, AV647577, BE885990, AV734018, AA314021, AW952995, BF977633, BG112324, AU135281, AW955641, BF212150, AV690401, AV647645, AV683995, BF244998, AV694639, AV717822, BF184397, BE872071, BF244747,

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HDPGX09	570	580818	1 - 1357	15 - 1371	AI401654, AW027344, AI808796, AI086605, AI992050, AI937040, AA583061, AA931892, AA843815, AA889272, AI040841, AA872436, AI204032, AI950961, AA480596, AA855152, AA227831, BE255946, AI095890, BE206161, AW972099, AA782497, AA706520, AI804401, AA782819, BF310981, AI042313,

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HDPIE44	571	899328	1 - 4101	15 - 4115	AL528314, AU130887, BE780963, BF966718, AL118570, BE739397, AU126476, AU139315, BF512830, BG115027, BE880693, AI908306, BF791388, BF035925, BF540985, AU122664, AV724420, AI672418, BF665031, BF057158, BF206660, BG120429, BE738855, BF129883, AW959181, BF106186, BF966523, BF213412, AI042351, BF211302, AL042137, BF515714, BF206917, BF031857, BF131974, BF129874, BE514139, AV696443, BF037314, AV661523, AW130577, AA424461, AW130565, AA902916, AU127429, BF677116, AU150429, BF665735, AA983275, AI239435, BE155330, AV705068, BF212900, AV710135, BF432386, BF057834, BF211687, AA461260, AA312396, AI627321, AI160503, N63373, BE502195, AV751301, AI884925, BE468064, BF513143, AV750990, AA186321, BF184200, BE559625, AA749086, AW025721, AU152756, AI418879, AA402517, N26419, AA088855, AI042350, BE268734, AI761107, AI819134, AA678020, AU150014, AA113363, AW341372, BF184441, AI457727, AA649198, BE674349, AA888970, AA580858, AA199866, BE270920, AV649723, H24854, AA100701, AW025691, BE836719, BG010680, BE550985, BE087003, AA326555, R77878, AA424417, AA188173, AL044709, H05951, BF792719, BF930036, N56631, N41679, BF923482, H45855, AI218982, AW779309, AV751002, BE089649, C17343, BF081703, R81295, AA502426, BE646243, BE931964, AW594429, BE676875, R11716, BF748564, H06000, AA460953, BE832883, AV703744, AI265945, AV751157, BE720186, AW021533, T09412, BF849176, AA088766, AA437111, AA336899, BE262777, AA358792, BE155518, H99315, BG166471,

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HDPIE73	572	886158	1 - 2237	15 - 2251	AJ277050, AL047063, AA551582, AC007544, AC009032, AL445490, AL138958, AC005887, AC007193, AC020552, AC005280, Z68192, AC005011, AP001725, AL049631, AF260225, AL121928, AL354696, AL022165, AL161907, AL163248, AL137068, AC010132, AC007225, AL121911, AL121578, AC002425, Z99128, AC023510, AC005618, AC010285, AL139019, and AL139019.
HDPIF35	573	826781	1 - 997	15 - 1011	AI243524, AA781360, AA398705, BG231646, AA397753, AI709131, AC025300, and AC025300.
HDPIF65	574	847047	1 - 1632	15 - 1646	BE728616, AI792832, BE390947, AW847993, AV656463, AV652571, AV652428, AV652548, AW857055, AW861271, AW861247, BE871959, AU117648, AA311439, BF530318, AV722554, AW847465, AV652526, BE865497, AA700038, BF306313, AW970962, AL442167, AP001694, AC009028, AL163285, AC005531, AC005539, AC007751, AC011230, AP001708, AL356750, AC002402, AL121654, AC007564, AL163202, AP000140, Z97054, AP001760, AP000088, AC009410, AP001689, AP000228, AL138718, AC010627, AL357080, AL022152, AC006337, AC013737, AC006966, AC004896, AC002454, AC016593, AL022161, AP001754, Z82198, Z97205, AP001710, AL160397, AL355384, AL138819, AL135920, AL023806,

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HDPIH25	575	740749	1 - 2715	15 - 2729	BG107624, BF527892, BE279486, BG256460, BF508889, BE385478, AI467928, AW166249, AW778976, AW574997, AI800616, AI925445, AI089415, AW149573, AI024733, AI971414, AI763095, AI589116, AI208223, AA402942, BE408172, AI831378, BE733229, BF736842, AI421651, AA022993, AW675796, AI627244, AA402016, AI302617, AI499636, AI654384, AA037464, AI122588, AI435518, BF508749, AI123001, AA022461, BG166921, BG166708, T56732, AA873384, R54580, AA300403, AA917606, AW005000, AW118396, AI368390, BF342887, AI540616, AI926134, AA427782, AW340843, AW964055, BF800474, AI239802, BF372584, BF755346, R89662, AA353160, AI380605, BF373063, AA825567, AA037549, BF822391, AW444449, AW451465, AW451467, AW594551, AW196237, AK024420, AK024421, AK024494, AK024466, AF284422, AC011895, AK026624, AC011895, and AC011895.
HDPIY31	576	886159	1 - 1964	15 - 1978	AL533296, AU142272, BE560264, BG117407, BE407326, BG116397, BE314927, BE315405, BF205715, AI935180, BE313422, AW965613, BF315382, AI701496, BF727272, BF115518, AI829152, AW474694, H23483, AL040572, AI005000, AA311926, BE297986, AI298282, BE743406, AI675622, AW845300, BF306252, AA037364, AI097581, BF308743, BE296105, AW148771, AI339720,

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HDPJH72	577	847048	1 - 1976	15 - 1990	AL513918, AI346905, AL513917, AI188571, AU121590, AI924557, AI300172, BE733798, BG168026, BF058735, AU139188, AW081916, AW190979, AI889056, AW152435, BF058331, BE731954, BF309094, BF569212, AW273379, AI828946, AU136251, BE614783, BE615010, BF432470, AW070806, AW269473, AI831568, BF304900, BE272680, AI696939, BG255800, AW517431, AU139677, AW262601, AW338247, BG056160, AI887270, AW732420, AI887577, AW732502, BE274053, BF107179, BG035031, BE273264, BG056360, AI346889, AI089787, AI200262, AA527578, AW241554, AA411305, AI806875, AI086842, AW970750, AW337188, AI814972, AI138479, AW191885, AI417425, AA293664, AI148501, AA129777, AI375918, AI206844, AI073359, AW264993, AI280971, AI660563, AI085751, AW044434, AI219190, AI819917, AW194948, BE208387, AI348064, AW265062, AA521070, AI369677, AA505353, AA479826, BF939697, AI278708, AA765683, AA832210, AI817006, AI360658, AI160697, AI304420, W46383, AW516782, AA832335, AI221077, AA627943, AI380474, AW076017, AI367482, AI149452, AI375151, AW083772, AI219396, AW135952, AA291604, AI400808, AI262227, AI474200, AA457698, N40020, AA285161, BE858635, AA639863, AA832334, AA864697, AW402345, AW385016, AW204473, AI149503, AA848027, AW135744, W40436, AW082780, AI344579, AI215947, AA812576, BE207860, AU156601, BF896273, AA449724, AA829620, AA918694, AA480795, AI123950, AI220924, AA133273, AI246014, BE293064, AI290433, AA741211, N93936, AA932153, BE019020, N27015, AW751268, N40138, AA192884, AI032257, AW086005, AA743228, AI342099, AU147377, BE045994, AA122125, AI200028, AI214752, AI209038, BF594416, BF765417, BF763032, BF765421, AA887785, BF765125, BF765708, W03557, AI886251, AI085877, AA643165, T59382, BF516178, BF800377, BF229821, N99655, AA411598, AA429578, AI956153, AA192093, BF764971, AA720977, AI991676, AI952840, AI339414, W46772, AI221033, AI656179, AI128892, H87158, BE301150, N67739, AI699651, BF994266, N71705, BG025141, AI970111, BF766053, BF766051, AA448579, H87414, H30281, H87660, AA227863, AA025261, AI766871, AA976638, BE551602, AI313892, AA069211, AA853174, AW969458, M91486, AA931200, D20249, AI073362, AW839848, AW862111,



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HDPJV53	578	815655	1 - 2802	15 - 2816	AI758377, BF368130, BF368118, and AC048369.
HDPJV75	579	745376	1 - 1236	15 - 1250	BF126597, BF059542, BE549836, AA404284, AI039647, AI141264, BF589698, AA256257, AW956594, BG152836, N32220, AI359710, H04854, AI474152, R37898, AA344485, R65633, AV650065, AA256132, BE175199, AW753207, AW966400, AV651671, AF167342, and AB006537.
HDPKC55	580	822869	1 - 1781	15 - 1795	AL524265, AU118851, BF980056, AW131155, BF335331, BF239644, AA992600, BG037204, BE882399, AU126511, AI075697, BE893763, AW193461, BE782280, AW028432, BE256242, BE254093, BF754921, BG003952, H38625, AI721114, BE165911, AA769221, AA370137, H38714, AL524264, AL042420, AI284640, AI334443, AA478355, BE672637, AV740801, BF347791, BF347740, AV760207, BF677892, AI963720, AW303196, AA613203, AW500125, AW301350, BE253048, AV762959, AA758366, AV760937, AV763354, BF668217, BG036665, AL042853, AI538852, AV761498, AL119691, AV762064, AV739452, AV764307, AV763670, BG060148, BG249643, AA581903, BF806176, AW193265, BG059568, AV760777, BE297262, BG059450, AV735370, AV762098, AV764530, AV762139, AV761362, AV759505, AL038705, AW103758, BE049139, AV757425, BE150580, BF991286, AV763633, AV763550, AV763971, AI431240, AI312309, AV762397, BG222267, BE160727, AW833862, AA812281, AI252274, AA584195, AV762111, AI744826, BF725315, AV733627, AV764578, AW502975, AL041690, AA514854, AV760057, AV762395, AA720702, AV760378, AI708009, AA468131, AA634889, BE139146, AV761294, AI307608, AA623002, AA531372, AV761188, AI133297, AV761608, AI754253, AW268300, AV763558, AV733029, AI932493, BF914859, AW072923, AL045053, AW419237, AV763540, AV762050, BF916517, AW960468, BF942454, AV762505, BE902562, AV761843, AI799642, AV764398, AA503475, AV759329, AI281881, AL046205, AV759274, AA664909, AV763255, AV761786, AL043009,

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HDPKD16	581	897304	1 - 2472	15 - 2486	BE858776, AW365711, AU122142, AU147802, AI493766, AI144542, AA644054, AI861948, AI978642, AA029298, W74496, W79093, AI242605, AA029837, BG001595, AI377055, AW883970, AW884115, BE735881, AA514639, AW079416, BF764710, BF766687, BE833074, BE061344, AW992275, AW884044, BF809296, AI095830, BE828357, AA150120, AI868029, AA026882, AF117708, AK022344, AJ297405, A94721, AF134149, AF281303, AF281302, AC005625, AC002300, AC009362, AC020552, AC004876, Z55211, U52112,

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HDPMC52	582	847049	1 - 540	15 - 554	AV710643, AA682496, AI749928, AA166695, AI871491, AA906714, AV712599, BE972339, T87299, R16882, D79690, AV712475, BF875951, BE241489, AV653767, AW937906, AW936139, AW936132, AV712496, BG222749, AX044406, AF134715, A79054, AF132600, AF186114, AF116456, AF136293, AX047489, A79061, and A79062.
HDPML04	583	822851	1 - 1408	15 - 1422	BF678641, BF673274, AI436608, AA503473, AI733856, AV759199, AV759972, BF725844, AI858864, AI002744, BF680286, BF805088, F12561, BF897060, AL022144, AC005522, AL109843, AC007242, AL132855, AL109743, AC053467, AC024075, AC004805, AL049576, AL158832, AP000512, AL161670, AL031847, AC006011, AC008687, AC004815, AC011895, AC006468, AC002351, AP001760, Z70280, AB009589, M59488, AL121601, AL391839, AL022329, AC004686, AL021154, AC011450, AC006486, AC020913, AL121891, AC005562, AC005305, M57965, AC005837, AC006312, Z97054, AC011495, AC004973, AL022476, AL356244, AC008812, Z84480, AC011497, AC004263, AC002553, AC008569, AC005899, AC006960, AC010510, AC002558, AL445220, AC002126, AL157791, AF045555, AC027319, AC004771, AC009087, AC004897, AL035684, AC011462, AC018797, AF196971, AL121928, AC008551, AL139352, AC023051, AL117352, AC006430, AC009600, AC004840, AC002072, AL050349, AP000113, AC008745, AC005952, AL035587, AC004531, AF135116, D49558, AF168787, AC007298, AC005180, AC003076, AP001747, AC004583, AC006333, AL135927, AC007227, AL160175, Z83845, AL049631, AL136112, AC008264, AL050335, Z98257, AC010203, AJ243213, AL031311, U78027, AL133545, AL135926, AL162615, AP000350, AC020904, AC005081, AC006329, AC004019, AC011475, AC005225, AL138958, AC006213, AC016025, AC018682, AC004811, AC005754, AC008925, AF243527, AC006451, AC004963, AC035150, AL450226, AL035422, AC007679, AC011469, and AC004655.
HDPMM22	584	683899	1 - 1167	15 - 1181	AA476976, AA436350, BE169639, AA429414, BF112103, AL040988, N77493, AA888475, AV708698, AA731705, BE062451, AW893846, AI146754, AW900465, AW893845, AW073434, AL109939, AL138758, M87652, AL138832,

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HDPNC21	585	839263	1 - 1416	15 - 1430	BF510732, BE973733, AW383767, AI655892, BE390657, AI700968, AI041186, AW675515, BG027778, AI478872, BE502597, AW262727, AW299601, BE349971, AI084873, AA884892, AI984129, AI183489, AI264533, AW511277, BF221881, AW966607, AL038932, BF195254, AA948493, AI936079, AA921907, AI183451, AU152663, AW449401, AW452805, AI700105, AI825707, AA905480, AA844508, Z40614, AI051120, T32893, BF509930, N67694, AI687341, AI473143, AA962376, F09334, BF205027, T36227, F07558, AA724182, AA639576, W31531, AW296890, AA904211, T69761, T70746, AW104193, AW970588, AA371988, H90326, AW970958, AW970064, N58301, AI160786, AW162128, AV703785, AI636734, AA644090, H63660, AA568204, AA570740, AA483606, T95623, AA877992, AV695478, AV720318, AW969743, AI268019, AI985108, AV759632, AV719889, AA630535, AV760915, AA857812, AL120282, BF772806, AV763067, AV760508, H71678, AA788592, T74524, BE300991, BE501670, BF526964, AW166824, AV754716, BF991881, R82650, AW813890, BG055660, AK023110, AC006115, AC007225, AC004883, AF196972, AC020913, AF134726, AL353802, AC004383, AC011484, AL034405, AL353748, AC006994, AL031727, AL109843, AL035405, AC005225, AL121675, AC002472, AC006285, AC008812, AC007425, AC005696, AL138976, AL121916, AL031311, AC004840, AC007690, AL121914, AC005086, AL138919, Z83826, AL135839, AL355365, AL035587, AP001731, AC007993, AL157818, AL031295, AC004263, AL049820, AC005520, AC005972, AC018764, AP000501, AL050309, AC007597, U47924, AL162430, AP001718, AC006449, AC004099, AC010311, AC008569, AC005746, AL031774, AL136979, AC004699, AC008567, AC002565, AC006026, AF207550, AC007193, AC004990, AC007707, AL031447, AC002551, AC006965, AC005231, AC004858, AC004966, AC083863, U89335, AC005048, AL031984, AL035458, AC002457, AL391839, AC004166, AC006581, X87344, AP000030,

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HDPNJ26	586	852338	1 - 1705	15 - 1719	H97952, AU150602, AA745961, AI688902, AA581433, AI811494, AW571697, AA843874, AL119355, AW190486, BE148974, AW130042, AV719347, AW167319, AW089655, AU118990, AF074627, AW177120, AI264673, AA152091, AI685116, AA493998, AI561208, AI924175, BG059728, AF063514, AL133942, AA189081, AI927861, AU121759, BG169215, AI858607, BE176566, AL038713, AL137994, AW089864, AI761656, BE646447, AI887321, AI827133, AA160519, AW440317, AI439860, AI925647, N64727, AA773359, AV719696, AU157470, AW177231, AI801377, AI872415, AW151307, AW589529, AW090210,

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HDPOD73	587	876202	1 - 783	15 - 797	AA478514, AA478515, BF904346, AV717475, C00579, AI708851, BG250789, AI581139, BG110768, BE885131, BE876652, BF925392, BF347269, BE879516, AV716506, AA640563, R81679, AA367920, AL046227, BF573089, BE147051, AL524561, AI433131, AW117882, BE547031, BF997228, BE899610, BG111850, BF343022, AI754257,



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HDPOT33	588	892319	1 - 1854	15 - 1868	<p>AL524800, AL531396, AL531395, AL523755, BE563768, BE563675, BE737127, BE563117, AL524799, BE735444, BE736512, BE513111, AW170589, BE736080, BE784398, BE737412, BE735817, BE304729, BE718090, AW950993, BE790338, BE718077, BE549206, BE736881, BE616539, AI283522, BE718071, AW080570, AA630981, BE736320, AW084220, BF379265, AW273155, AW026961, BE786482, BE718073, AI816999, BF437236, AI393874, AI990453, BF939229, AI635233, AI936152, BE549016, AW028306, AI826933, AI356959, AW630132, AI056515, BF908571, N74607, AW131199, AW131191, AI283954, AW613861, R91904, AW206474, BE718088, BF915311, AI806888, AW085747, AW028467, BF915499, AW438644, AW793006, AI571681, BF914535, BF915617, AW170384, AI874173, W00882, AW800456, R94371, AI033545, AW292600, BE545863, R08410, BE714418, AW591193, BF589543, AV693370, AI936210, AI382241, BE546161, AI064910, AA228864, AW973030, BE737320, R92737, AW054644, BE718080, BF354993, AA532458, AW804907, AA078365, AW801010, AI289471, AW084790, AW084896, AI270093, BF876794, BF325726, BF154465, AA715246, AW292712, AW793792, AV693364, C00005, AU076520, AL514757, AL514773, AL514829, AL514869, AL515035, AL515225, AL514939, AL515043, AL515375, AL514885, AL514843, AL513961, AA309803, AL121564, AL514763, BE905408, BG111916, BF913616, AI541056, BG166490, AW129230, BF039003, R08409, BF814447, BF970652, BG254139, BE906646, BE963519, BG179993, AI633125, AI491775, AI473536, AW827276,</p>

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HDPPB70	589	874027	1 - 2430	15 - 2444	AU121983, AU142011, AU140553, BF310789, BE298155, AA780275, BF308182, BF305747, BF589646, AA524472, BE814909, AI796214, AI800089, AI620874, AW119178, BF445851, AW292287, AU147700, AI493093, AI521627, BE836137, BF055031, AI376017,

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HDPPC19	590	561937	1 - 672	15 - 686	AL391094.
HDPPE05	591	809109	1 - 1098	15 - 1112	AI802780, AW853906, AA974383, AI655799, AI745171, AW992963, AW293743, AW467016, AW328076, BF197643, AW168207, AI739521, AW073890, BF445276, BF195887, AW002703, AW161625, AW157477, AW157176, AW328075, BF062308, AI631661, BF592846, BF064207, AW090343, BF058376, AA738238, AI906428, BF434171, AV727102, AL529794, BE245923, AI656482, AV741325, AA249074, AI991472, BE939226, AI653282, AW515714, BE550597, BE907907, AV737576, AI652717, AI654896, BE699651, BE550526, AW393827, AW393832, AI203310, AW390900, BF992488, BF380615, BF849932, BF757841, BF875870, BF800851, AW590658, BF760689, AA776677, AW390889, AA381902, BF765948, BF204206, AW364462, BG028717, BF435033, BF773555, AL529793, N93494, BF800870, AW993096, BE720164, AC004493, AB016089, AB016088, AB016092, AF201422, AF161338, AL121891, AC004491, AC004477, AL096791, AC004493, and AC004493.
HDPSA70	592	722216	1 - 1240	15 - 1254	BE178114, AW294999, AI741173, W81246, AI431774, AI356618, AI478836, AI858030, AW572403, AI400430, BG166067, AI087828, AI097624, AV720768, AI308106, AI307651, AI923929, BG121201, AI452787, AV717879, AI634314, BG122081, AI393799, AV683269, AA641454, AA045278, AW296617, AI754038, BF983388, AW827310, R71942, AI492462, D79255, AV696160, AW956122, BE504993, AW470495, AA045404, BF239652, W81710, AI569987, AA665686, BE178096, AW957405, AI285407, AW271172, BF670711, BG122036, AW609385, AF098066, Z84488, AC024657, and AC024657.
HDPSS56	593	847051	1 - 1226	15 - 1240	AV699469, BF446668, AV699812, AI346806, AV700001, AV699811, BE465447, AI681423, AV724510, AV700424, AV700425, BF001314, AI953344, AV700572, AA477265, BE182680, AV700576, AV699810, BF110903, AV699780, AV700125, BG060077,

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HDPSZ07	594	784681	1 - 1323	15 - 1337	AI989355, AV711811, AV713456, AV713329, AV712260, AV725577, AV725031, AV733767, AV699269, AV727618, AV715898, AV733915, AV726337, AV708520, AV745940, AV763230, AV725618, AV708786, AV725582, AV709580, AV726194, AV653353, AV716216, AV728743, AV729424, AV763985, AV704626, AV759285, AV761360, AV713333, AW955629, AV704144, AV651897, AV725441, AV725321, AV708872, AV706223, AV652001, AV726590, AV662242, AV762836, AV759241, AV743111, AV757269, AV652528, AV703632, AV725255, AV756644, AV728404, AV764428, AV726830, AV764028, AV699250, AV735331, AV727822, AV682278, AV725596, AV756617, AV759375, AV740765, AV729597, AV699223, AV703168, AV729473, AV661369, AV660258, AV660096, AV733258, AV757882, AV660516, AV727314, AV746276, AV705047,

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HDPSZ07	596	897740	1 - 1323	15 - 1337	AI989355, AV711811, AV713456, AV713329, AV712260, AV725577, AV725031, AV733767, AV699269, AV727618, AV715898, AV733915, AV726337, AV708520, AV745940, AV763230, AV725618, AV708786, AV725582, AV709580, AV726194, AV653353, AV716216, AV728743, AV729424, AV763985, AV704626, AV759285, AV761360, AV713333, AW955629, AV704144, AV651897, AV725441, AV725321, AV708872, AV706223, AV652001, AV726590, AV662242, AV762836, AV759241, AV743111, AV757269, AV652528, AV703632, AV725255, AV756644, AV728404, AV764428, AV726830, AV764028, AV699250, AV735331, AV727822, AV682278, AV725596, AV756617, AV759375, AV740765, AV729597, AV699223, AV703168, AV729473, AV661369, AV660258, AV660096, AV733258, AV757882, AV660516, AV727314, AV746276, AV705047, AV738231, AV763278, AV650367, AV708347, AV707640, AV662268, AV706662, AV681736, AV701596, AV702781, AV709880, AV699156, AV726755, AV651075, AV707401, AV661286, AV702673, AV702581, AV707556, AV727625, AV727139, AV755608, AV705312, AV713377,

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HDPTI49	597	847052	1 - 1710	15 - 1724	<p>BE048233, AK024569, AC005229, AL355385, AC005884, AC008403, AL109897, AC084732, AC005280, AC020906, AC004967, AC002565, AL121757, AC021016, AC000353, AL139084, AL121776, AC011495, AL353748, AL121985, AP001710, U91321, AC019181,</p>

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HDPY22	598	826725	1 - 1505	15 - 1519	AI471753.
HDPY25	599	636058	1 - 1094	15 - 1108	AV723365, AV723503, AA468769, BF768322, AI721000, AA323792, AI343497, AI695332, AA488309, AW890001, Z19690, BF803697, AW151974, AL048323, AW151132, BG252929, AW151136, AI434242, AI539771, BE897632, AI537677, AI494201, AI500659, AI242736, AI815232, AI801325, AI500523, AI538850, AI582932, AI923989, AI284517, AI872423, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI567971, AW172723, AI284509, AI889168, AI440263, AI866573, AI633493, AI434256, AI866469, AI805769, AI888661, AI284513, AI888118, AI859991, AI436429, AI889147, AI355779, AI554821, AI371228, AI440252, AI866786, AI860003, AI610557, AI887499, AI590043, AW058275, AI371251, AI866465, BE885490, AI433157, AL047282, BE886728, AI890907, BF812963, AW858243, BF812438, AI866510, AI559976, BF811804, AI923046, AL048340, AL047422, AI539781, AI500714, BF726204, AI358271, AI887775, AI559957, AI491710, AI539800, AI538885, BG029667, AI431238, AI801286, AI581033, AI285419, AW192487, AI828574, AI539707, BG110517, AW089557, AI521571, AL042686, BF904176, AI648567, AL040844, BG104735, AI432644, AI440260, AI289791, AI804505, AI815239, BG257535, BE883591, AI866691, BF795712, AI926593, AI274759, AI285417, AI582912, AI927233, AL042572, BG167830, BG180295, AI866458, BF885082, AI285439, AI433976, AI623736, AA838230, BE011880, AI431307, AI432666, AI440238, AI623302, AI872300, AI431316, AI539260, AW151979, AI702065, AI885949, AW194509, AI582910, AI469775, AI282249, AI366900, AI866581, BE537531, AW074057, AI567953, AI815150, AI446495, AI952433, AI867068, AI225248, AI521596, BG166490, AI698352, BG122277, AI371229, AW197139, AI499325, BG113712, AI889191, AI275175, BE875243, AL045500, AI499463, AI567944, AI610362, AI267162, BF032768, AI440239, AI500683, BF727352, BG261116, AI537273, AI436456, AI371265, AI866461, AI963846, AI567940, AI610357, AI817244, BF968504,

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HDQGD06	600	838076	1 - 1565	15 - 1579	BF981338, AW083101, BE867790, AW080809, AW151128, AW516192, BE909495, AI860367, BG255918, AI889693, AI912399, BE293369, AI889667, BE858877, BF507346, AI807965, AI571533, AA913366, AW373838, AI379207, AI057295, AI860625, AI077326, AI052763, AI269510, AI367019, AW182136, BF514082, AW628285, AI537226, AW371793, AW188719, AW852750, AI936590, AI554521, AA614728, BF816364, BF816356, AW373843, AA810214, AW295691, AA826187, AA632247, BF877007, AW001274, AA807525, AI417934, AA250815, AA812075, AI566364, BF354248, AA825480, AA765152, AA588234, AA730281, BE069904, AW449708, BF974117, AA761459, AA835960, AA811114, AA835989, AA613426, AW844927, AW844512, BF348573, AA586884, BF920672, AA776890, M78233, AY007125, AC004923, AC004923, and AC004923.
HDQGD06	601	852673	1 - 1547	15 - 1561	BF981338, BE867790, AW083101, AW151128, AW080809, AW516192, BE909495, BG255918, AI860367, BE293369, AI912399, AI889693, BE858877, AI889667, BF507346, AI807965, AI571533, AA913366, AW373838, AI057295, AI860625, AI379207, AI077326, AI269510, AI052763, AI367019, AW371793, AI537226, AW852750, AW182136, BF514082, AW628285, AI936590, AW188719, AA614728, AI554521, BF816364, BF816356, AW373843, AA810214, AA826187, BF877007, AW295691, AA632247, AW001274, AA807525, AI417934, AA812075, BF354248, AI566364, AA825480, AA765152, AA250815, AA588234, AA730281, BE069904, BF974117, AW449708, AA761459, AA835960, AA811114, AA835989, AA613426,

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HDQGD06	602	881280	1 - 1567	15 - 1581	BF981338, AW083101, BE867790, AW151128, AW080809, AW516192, BE909495, BG255918, AI860367, AI889693, BE293369, AI912399, AI889667, BE858877, BF507346, AI807965, AI571533, AA913366, AW373838, AI379207, AI057295, AI860625, AI077326, AI052763, AI269510, AI367019, AW182136, BF514082, AW628285, AI537226, AW371793, AW188719, AW852750, AI936590, AI554521, AA614728, BF816364, BF816356, AW373843, AA810214, AW295691, AA826187, AA632247, BF877007, AW001274, AA807525, AI417934, AA250815, AA812075, AI566364, BF354248, AA825480, AA765152, AA588234, AA730281, BE069904, AW449708, BF974117, AA761459, AA835960, AA811114, AA835989, AA613426, AW844927, AW844512, BF348573, AA586884, BF920672, AA776890, M78233, AY007125, AC004923, AC004923, and AC004923.
HDQGN08	603	840588	1 - 1946	15 - 1960	AA778143, AW338021, AA702618, AW082651, AW082117, AL037910, BE142930, AL039187, AI872503, BF724877, AI859834, AA663966, AA484143, BE676900, AA557486, AA503258, AW021597, T47739, T74524, AI979005, AA435967, AW873417, AI783911, BF964699, AV763418, AV759935, AV764104, BE150087, AI864500, AV762136, AI151407, AL045709, AL034548, AL080243, AL121656, AJ277546, AC005225, AC005527, Z83840, AC007999, AL389874, AC011742, AC007391, AL049759, AC027644, AL034372, AC005971, AL050306, AP001713, AL022324, AL022318, AJ297357, AC006038, AL031985, AL031311, AC009298, AJ295844, Z84466, AC008044, AC011455, AL133551, AC009481, AC009228, AC006285, Z95116, AC005839, AC007193, AC026473, AC004859, AF152365, AC005355, AL031390, AL035458, AC008821, AP001725, AL096701, AC004686, AL163249, AC005288, Z84480, AC002350, AC009307, AP000555, AP001759, AJ009616, AL031577, AL031432, AC008403, AL356575, AC005070, AL354720, AL050308, AC011475, AC004966, AL162430, AF111168, AC024082, AC026161, AC009756, AC034186, AC008372, AC004019, AC004841, AP001727, AC008543, AL139100, AD001527, AC005703, AL078581, AC016602, AC008569, AL022163, AL109824, AC005519, U80017, AC002366, AC005247, AX039602, AD000812, AL109614, AC004890, AC055740, AL109743, AP000359, AL034405, AC007684,

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HDQGO62	604	837353	1 - 1063	15 - 1077	BE562779, BG035450, BE893487, BG105281, AI114644, BE893143, AV684576, BG112255, AA699466, AA878228, AA314626, AA482495, AA133382, AA203566, AV698604, AW375961, BG029290, BE384262, AW044322, BE260016, AI660143, AI002164, AA677563, BF213238, AI167417, AI076460, AI494602, AI983933, N36909, AI961766, AI566849, AW069332, AI741708, AI381523, BE081350, BG113738, BE045153, AI418960, AW084654, N46186, AI417873, AI973147, AA133341, AA644458, AI554356, AW751708, AI276516, AI081817, AI139435, AI360740, AI709276, AA991188, AI000490, AA875867, AI040795, BF312062, AA779505, AA482645, AI089763, AW946905, AI039024, AW072966, AI630945, BE827186, AI540307, AI857394, W80609, AI016655, W80608, AV698717, AA679091, AI621128, T92864, H12646, Z25122, AI581616, AW952577, W20194, AI700142, AA335842, AI735116, T72567, AI263007, N90549, AW628526, AI204402, R54967, AW768321, AI272046, AI817602, BF509036, BF687569, AI523405, T92599, AA490161, H90725, AW799699, BE463685, BF197418, AA464646, H90720, AI886415, AI242248, AI679098, AI301046, AW020397, AI800464, AW020710, BE970508, AI917963, AW269097, BG180273, AI955117, BF840674, AI336513, BE543089,



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HDQPM16	605	886161	1 - 2040	15 - 2054	<p>AL533606, AL533837, AL520632, AL534227, AU122232, AL534320, AL534321, AL533607, AL533045, BE250066, BE745734, BF528024, AL520631, BF341118, BE250062, BF969719, BF970063, AU118651, BF796039, AL537901, BF688902, AU141241, BF970450, BF206011, AU137683, BG164834, BE747532, BF309304, BF968924, BG256395, BF683973, BE908060, BE379295, BG024515, BG112801, BF346754, AU142949, BE731196, BF314093, BE293831, BF686263, AU117188, AW247213, BE299289, BF528897, BG251587, BF129023, BF128633, BF683563, AA932920, BG026660, BF972999, BF688677, BF976020, BF971180, BE618135, BG260347, BE255891, AW994419, BE819433, BG026744, BE819439, BF237921, BE788819, BF684658, BE819435, BF128570, BE898693, BE788877, AW853572, BF345309, BE395486, BF037925, BE298487, BE884293, BF036645, BE898535, BE259272, BF663567, BF663908, AL035940, BE870199, AI819491,</p>

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HDRAA17	606	567439	1 - 774	15 - 788	AV759664, AV763165, AV716232, AV714174, AV715219, AL532984, AV713583, AV764588, AV716231, AV717089, AL532784, AV762346, AV759105, AV763809, AV758330, AV701382, AV760339, AV711191,

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HDRAC68	607	608173	1 - 768	15 - 782	AV713583, AV715219, AV758330, AV714174, AV763165, AV762346, AV759664, AV759105, AV717089, AL532784, AL532984, AV716819, AV764588, AV701382, AV716232, AV716231, AV716473, AV755357, AV711191, AV756331, AV715360, AV710416, AV711192, BE748817, AI207682, AV710426, AI114651, AV758331, AV761988, BF679742, AV760255, AV710433, AV763809, AV763741, AV756673, AV764468, AV761310, AV755454, AV760339, AV733598, BF965317, BF965301, AV735236, AV710845, AV756651, BF666508, AV733458, AV733562, AV758297, BF965374, AV763336, AV763689, AV762062, BF675989, AV758031, BF691696, AV710638, BF670456, AV756999, AV760352, BF965208, AV701162, AV756997, H75980, AV734671, AV760981, AV756787, BF965362, BF672798, BF965014, BE439821, BF679701, BF102627, AV757746, BF679081, BF679158, AV710308, AV652199, AV761765, AV755470, AV764436, AV717378, AV761536, AV758999, BF105290, BF681327, AV761687, AV714292, AV701345, AV710171, AV758009, AV710518, AV759966, AV710860, AV759319, AV710958, AV759147, AI132961, AV761499, AV761887, BF029846, AV764036, AV710587, AV764445, BF680139, AV759144, BF680382, BG104689, BF679138, AI133690, BF670621, AV733186, BF576345, AV763468, AV710328, BF574438, BG105236, AV710259, AV733593, BF679315, AV709993, AV734689, BE748347, AV763442, AV762489, BG116130, AV763667, BF678989, AL036115, BF575627, BF681317, BF679955, BF965307, BF680051, BF678350, AI909708, BF679061, BF126364, BF126438, BF698033, AV763466, BF382061, BF576362, BF126387, BF679788, BF681358, BF680747, AV758925, BF678752, BF679911, AV647674, AV701146, AL037828, BE890052, BE967472, BF574784, BF105834, AL037375, AV735027, AV710779, AV732947, BF105259, BF694694, BF694925, AV763381, AV701333, BF965255, BG170703, BF126358, AV681935, BF126526,

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HDSAC78	608	596810	1 - 1373	15 - 1387	AA678920, AA662917, AA001920, AA001944, AA807205, AA741519, AA491553, AW025280, BG055085, BE814382, BE814383, AA502305, H51266, AW496826, AA808642, AI682129, AA010111, AA347643, AI921521, AI085519, AA877069, AI569734, AA001139, AL117356, AB029149, AB029150, and U71598.
HDSA37	609	603518	1 - 531	15 - 545	AI884448, AA449955, AI537365, AI676253, AI372912, AI382076, AW840570, AI679072, AW515007, AI273983, N46260, AA565581, BG056334, AW193226, AI915591, AW268393, AI922781, AA836877, AW241264, AI928559, AI129884, AA443895, AW341634, R66549, N95436, AW514323, N64460, AW302356, AI891026, AI087015, AW517675, AW840396, AU149236, AI610422, AA429214, AI628488, H66739, AA888180, AA746039, AA913077, AI926224, AI299065, AA738493, AA493387, AI129773, AW084418, AW007829, AW192218, AW172713, N65966, AA742411, C01708, AW516464, N71032, AI129495, AI348515, AI245885, AI610829, AI138737, AI138741, AW084377, AI784021, AI951055, AA826478, AA983385, W73381, AA826526, AW075328, F10424, AI806420, AI302133, AI185836, F15856, AI138743, AI589031, AW070352, AW771451, T28473, AW243679, N55529, W81416, T72814, AA063600, AA582325, AI418726, N73753, AA699883, AW439037, H42969, R39173, H92074, AI208405, AI247207, BE965435, AW873791, H28576, AA468813, R94164, H08667, BE621889, W68125, BE621787, AV690793, F06581, AI332688, AI624721, AI640277, AA927406,

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HDSAM57	610	834822	1 - 910	15 - 924	AW021583, BF668217, AA610491, BG109996, AW969629, AW833862, AV763540, AA581903, AW501386, AW419262, AI284640, AL118991, AL119691, AW303196, AI133164, BF677892, AW301350, AW274349, AV740801, AA665330, BE154617, AA569471, AI334443, AA720702, AL041690, BG058664, AA587604, BG249643, AU147104, AI801482, AV735370, AW062724, BF970654, AV652936, AW518220, AW969988, AW472872, AV682003, AV728928, AI144101, AI623720, AA521323, AW023672, AI801591, AV759274, AV763971, AV761489, AW474160, BE154719, AI434695, AV762111, AW974932, BE674881, BF130107, AI345418, AI457597, AI890348, AV760395, BE049095, F36273, R17793, AA649642, AI457397, AI379719, BG179731, AW148507, BG236735, AI754037, AV757607, BE672637, AL040921, AI754336, BF475381, BE872393, AA521399, AL120008, AI635819, BF918640, AU147800, AV759204, AW819125, AL046205, AV735495, AW965052, AI564185, AL138455, AV762395, BE208673, AF063563, AI281881, AV761362, BF940837, AA491814, AV725627, AU144015, AW238278, BG171422, AV760937, AW630298, AV763354, BE042649, AV762098, AW238583, AI017251, AV742057, AV761745, AI754253, AW407578, AV760777, AA552856, AW772780, AV764329, AL047427, AF074677, AW956640, AI471572, BG109567, AV761106, AI610920, AA488746, AA164251, F28204, AA470969, AI076616, AV691147, AW576503, AV710770, AW021917, AI017415, AW662543, AW473163, AI696955, AA847499, BE350475, AV763255, AL138265, AW148792, AL038705, BF592200, BG118285, AL044940, AV763847, AW964335, N75391, AL048925, AL133448, AF015149, AC008745, AF243527, AC006552, AL138976, AL022316, AC008372, AL031577, AL137060, AC004228, AF077058, AL109627, AP001752, AC011895, U57005, AC010854, X75335, AC004821, AC005972, AC008543, AL110115, AC004905, X55924, AC005726, AL031257, AC008639, Z98884, AP000556, AL118505, AC007957, AC083866, AC005919, AC011455, AC011480, AC004770, AL034451, AP000557, AL031774, AC008623, AC024168, AL136298, X55923, AC019060, AL031282, AC005197, AL049588, AC003108, AP001732, AL035086, Z85986, AL136297, AC007617, AL133467,



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HDSAO14	611	847054	1 - 1419	15 - 1433	AV727057, AV701902, AV701747, AV726054, AV654327, AV654711, AI525852, AV702277, AV708524, AV705252, AV702502, AV681688, AV655665, AV702916, BE439570, AV725767, AV728144, AV655936, AL531623, AV726921, AV727470, AV728252, AV705411, AV726806, AV726469, AV705012, AV707667, AV728259, AV701616, AV729480, AV703608, AV708535, AV708162, AV702065, AV729244, AV728722, AV728117, AV701758, AV703278, AV703611,

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HDSAP15	613	772712	1 - 1843	15 - 1857	AL533126, AI928228, AI986295, AW052146, AI808522, BF575470, AI767642, AW025345, BF061092, BF528772, AL533127, BG260542, BF977985, AA772078, AA858427, AW469286, AW953365, AI554864, AI683456, AI582689, AA806625, AI680274, BF209841, AW614818, AI745623, BF591069, AI041921, W67223, AI831295, W86505, BE565407, AW958118, BF669695, AI699876, BE219995, BF817549, AA251571, AI240206, BE049368, AA236388, AI216491, AI245175,

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HDTAS57	615	664482	1 - 901	15 - 915	BE740032, BE898283, D78844, BE743612, BE746513, BE163800, AW402327, AW402886, AI824576, AW983691, AW983703, AI624548, AI493576, AL513723, AW827289, AI633125, AL039086, AL080046, BF872365, AI866127, BF914102, AI887430, BF792961, AI627988, BF970652, AW583714, BG029829, BF968910, AW167918, AI802542, BF727034, AW081231, AI281867, BG179993, AL080045, BF727091, AW190194, AW079572, BF814527, AW090393, AI927755, AI241923, AI288305, AI758735, BE544111, AW089471, BF812960, AI884318, AW162194, AI677796, AW243886, AI473536, AW983829, AW169653, AI537837, AI916419, BG164558, AW151714, AI917123, AW827206, AI619502, AV710199, AI499285, AW880037, BE048135, AL040243, AW051088, AI868204, AW089310, BF061283, AW951263, AI569583, AI433157, AI638798, AI702073, AI554821, AW983832, AI470293, BG122481, BG058150, BF812961, AA833760, AI251221, BF812938, AA225339, AW152182, AW129230, AW169604, AW118518, AW148356, AW081036, BF680133, AW983706, AI564247, AI491775, BF970768, H89138, AL036396, BG109270, AI500061, AI446684, AW162118, AI612759, AI567582, AI890223, AI538564, AI270055, AW198090, BE895585, AI587606, AI538850, AI366900, BG035511, AI862024, AI923989, AW054931, AW196299, AI680388, BG108406, AI440263, AI269862, AV741327, AI635067, AI431424, AI568138, AA983883, BE910373, AI500706, BG034550, AI280607, AV756393, AI961589, BF895953, AI589267,

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HDTBP62	616	665417	1 - 1344	15 - 1358	<p>AI797144, N36816, AW005535, BG110880, N27796, AI741568, AW014247, AI805958, AI435043, BE045429, AI689088, N20927, AA706609, AI452392, AW867808, N24902, AI074713, AI129932, N46034, N32952, AI087344, AA456557, AW997098, AA478833, R60008, AI033379, N32297, BF477820, N36024, N23219, AA846574, AW674030, AA807771, AI247577, BF475296, BE670271, AI934330, R44169, N42624, AI243905, AV738613, H72945, BF973442, AA258424, H72545, BF446718, H26875, N30401, BF062479, AI681100, AA296588, T88731, AA564205, T93617, AW275463, AA258466, W95724, AW664810, AW970387, T93664, AA534555, T84264, AA535064, BE774193, AA233853, BF371242, R39378, R39394, N47069, BF326091, AA515514, AA232794, AL514455, AC010285, AC011506, AC069072, AC069072, AC069072, AC015991, AC015991, AC015991, AC069415, and AC069415.</p>



HDTBQ77	617	587295	1 - 1321	15 - 1335	AW590139, AI672186, AW518585, AI474146, BF814449, AI363741, AI570966, AI686073, AI677797, AW089844, BE962485, AA587590, BG025096, AI421662, BE890041, AI689470, AI954721, AI345415, AW078689, AL040528, AW132071, AI431962, AI859123, AL037602, AI628214, AL037582, AA806534, AI952920, AI879377, AW152195, AI050666, AW080157, BF726173, AI932739, AV711924, AI538850, BG026746, AI630947, AW007833, AV713517, F37537, F33315, AI674234, AI863665, AW005029, AW021091, AV648430, AI359787, AI624693, BF811802, AW071689, R81679, BF213611, AV760409, AI370322, AI440444, AI963191, AV728276, AI357996, BG255493, AW008226, BE876713, AV757591, BE965187, AA832154, AI890391, AI582900, AW151714, BG255770, AW087934, AI345612, BF812963, F27788, AI280661, AI539800, BF997967, BG028429, AI590755, AI345416, AI858874, BG181093, BF925370, AI648458, AW167215, AI473799, AI799228, AI674862, AI583578, AI358590, AI250627, AW020425, AI270039, AI884303, AA190918, AW956384, BF751299, AW827285, AL135024, BG120493, BF530177, BG111312, AP000081, AL355365, AC006197, Z94277, AC005291, AC026888, AL034400, AC024247, AC008269, AP001731, AP001624, AC019222, AC019222, AC019222, AL354723, AL354723, AL354723, AC053511, AC053511, and AC053511.
HDTDA48	618	809110	1 - 918	15 - 932	AI682383, BF058603, BF229146, AI992213, BE696074, AI810850, AW138289, AW051377, AI970847, AI167412, AW972996, BF590194, AI435950, AI334122, Z44451, AI436007, AI640203, AI251020, R32133, AW008658, F12169, R32149, W42896, T78298, AU153642, AW779905, AA007662, AI860760, BE467143, AA565447, BE182178, R54351, AA676223, AV691645, R54352, BF055976, AI869011, W42781, BE673477, BF477724, BE856088, AI817591, AA007625, AA345307, AL044784, AI202423, AW301602, AI435318, BF055171, BF437051, R88725, AI085457, AW899513, AI627861, T65260, BF194898, R32134, AW246259, AI214484, AI571140, N51654, Z45527, AW854210, AW854139, AW854062, AW854078, AA207238, R32150, AA452737, Z40378, AI521005, BE891834, BF895218, H89138, AI633061, AW161202, AW024793, AI961589, AI366968, BG029829, AI366959, AI868163, AI801325, BF531010, BG001235, AW827285, AI687568, AI537837, AI933992, AI868204, AW085786, AL036652, AV742698, AI366974, AV738730, AI284131, N29277, AI345397, AI631216, AW022494, AW020288, BF339322, AI571909, AL039086, AI281757, AW193467, AI270295, AI752007,

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HDTDE66	619	610074	1 - 683	15 - 697	BF525338, AA573785, AV657500, AI421829, BE439672, AW602040, AW860522, AI889106, AI815098, AI444641, AW082282, AW602036, AW151910, AI688082, AW251068, AI935867, AV682818, BF803392, AI660665, AI342309, AI301940, AI336447, AI559518, AA974182, AI625318, AI636809, AF063527, AI469758, AI216199, AV652658, AW571542, AI336445, AI476296, AW869448, AA865622, AI272699, AW939116, AA903732, BF815382, AI832439, AW939111, AI908555, AW079674, AV693996, AW276067, BF342450, AI290972, H41084, AI865986, AI659188, BF433428, AV657785, AI333305, R76336, BF804890, AI590410, AI914585, H12385, AW886586, AV715407, R94963, AA639087, AA987621, AW768254, C20912, D45438, AV654089, AW613578, BF806092, H70884, AI274107,

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HDTDG75	620	799892	1 - 597	15 - 611	AI090005, W93821, AA935570, AA954561, AA902133, H77593, AI478467, N24102, AI675237, AA700892, BE274970, BE274596, AV711390, AI244920, and AC024603.
HDTDS09	621	651320	1 - 662	15 - 676	AW247172, AL519513, BE792196, AV707687, AL529133, AV706886, AV705566, BF568898, BF690553, AL528318, AA843927, AI951855, AA861765, AI885457, AA984067, AA523404, AI937350, AI475790, AA131344, AI870237, AA410200, AA523386, AA857433, AA716195, AA527149, AI143901, AA582827, AA576760, AA434425, W93644, AA292979, AW007438, AI359464, AA132484, AA307845, AA932517, AI559671, AI460344, AI925699, AW471278, AA812309, BE855479, AA984085, N41008, AI031993, AA131233, AI027713, BF941091, AI696904, AW083822, AI749028, AI090571, D56251, AI051840, AI951744, AW088073, AA477741, W60671, AA479040, AA410846, AA622594, W93904, AA308717, AI358675, AA398066, AA453179, AI124889, AA478115, AA235620, R59350, BF725598, AW665775, H40767, H18360, AA781312, AI206564, AA757983, AA434198, AI083763, W60672, AL047640, AW510314, BE394425, BE208662, AA017307, AA481343, H07927, H54439, H20698, AA027939, AA504030, AA477522, H85840, BG152531, AA536122, BF939422, AA017552, R55712, AA436399, AI262602, AA595557, AV747463, H21242, BE206700, AA404682, H19959, AA910947, R81633, AW135458, BF346295, R61823, H46841, AW169717, R71855, AI580747, D52938, AI202158, AA902892, AI675426, AI971191, AA321261, AI826721, AA863430, AI198058, AA453994, T17338, AI688424, AI969949, AA043907, H54528, N89797, AA251081, AA551767, H20133, R71801, H20699, AA302385, H38437, AA385904, R48584, AA877345, T32134, AA564309, T17334, BE936323, T32102, BF956569, BE838786, AW605244, AI364137, BF897605, AA203288, AA284122, AW190043, Z40858, BF870245, R48687, H19960, F04007, T19067, H20287,

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HDTFF53	622	637591	1 - 558	15 - 572	BG056487, AU127211, AU120951, AW152140, AV714159, AW148854, AA669103, AU149143, AI081164, BE326758, AI823680, AU146104, N45220, N50863, AU157623, AI819552, AA772465, AI357072, AI243439, AI287615, AI041875, AA806198, AW338221, AU155408, AA418914, AA974142, AW302345, BF939532, AI984738, BG032818, AI027802, AI983168, AI709380, AA903560, AI242317, AI083595, AU156276, AI439877, AI719887, AA954852, AA830274, AV738407, AA931087, AA996316, AA830534, AA744833, AI199746, AA994336, AI367496, T51937, H17947, AA522552, AA523538, N64600, AA604069, AA876636, AI299975, AI719894, AI749328, AI276387, H97418, AU119873, R45561, AA912273, H89126, AA526442, BG230793, AA028058, AA356315, BE829771, F09004, AA665259, AA307195, BE349314, AA426578, AI288433, BF028479, AV737654, BF913322, AA604866, T18902, AI588898, AI147796, BE817965, AA335776, R71014, AV727825, AA243497, BE826166, AA639077, AA836439, AA639167, AW118500, BE836877, BF109537, BF679452, BE836866, H13718, BF094186, BE243751, AI984411, AV739641, BF102782, H13671, AA844611, AI783478, AA243809, BE817968, AA731057, AU117591, AA862240, BE538399, AW129732, N90258, D20450, T24696, AW903152, AW189346, AL040404, AW020290, AA492514, AI500104, H38744, AW071174, BF213671, BE939965, BG107064, AW953801, AV684328, BG260386, BE541825, AA502418, BE771105, BE940011, AL031775, AK022681, AL133264, AL031775, and AL031775.
HDTGW76	623	862012	1 - 2221	15 - 2235	AV719015, BF115150, AI754069, AI632330, AA515656, AI341831, AI167414, AI379515, AI634554, AI379233, AA907250, BE464348, N78733, AA041476, AI951129, AI431313, AW977857, AI475292, W16643, AI801201, AW440799, W16645, N78735, AI470824, AI300030, AW440761, AI802172, BF082070, AW440743, AI695158, R78670, AI913436, AI872350, AA808357, AI698460, AV715284, AW190518, N59175, R32610, BF383104, D62095, AA330059, D60196, AI380195, AA927396, BE157325, R32500, AW504048,

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HDTGZ56	624	800756	1 - 1462	15 - 1476	AW102851, AA219059, AI285709, AI783494, AW130446, R07119, BF901147, AP000066, AL359434, AC004686, AL135927, AC007227, AC005666, AC004447, AL354864, AJ277546, AC006480, AC018663, AL109754, AC005755, K03021, AC004216, AC005056, AC006483, AC005088, AC011455, AC004491, AL162578, AC008569, AL122001, AC007565, AC004983, AC002310, AC003108, AC004865, AL158830, AC004131, AC005052, AC007216, AL121776, AC020916, AC006329, AF053356, AP001629, AL161725, AL133355, AC004965, AP000356, AC005522, Z84484, AC004821, U91321, AC018719, AC009413, AC006141, AL022320, AL132656, Z98044, AL031587, Z85986, AC004526, AC005280, AC005049, AC008395, AC005081, AC005519, AC004967, AL080245, AC008635, AC007731, AC020917, AF024533, AC007304, Z77249, AL031010, AC018758, AL022316, AL035419, AL161670, AC007957, AC004089, AC004409, AC005412, AC007221, AC004659, AL031659, AC009032, AL355392, AC011895, U62292, AL109955, AC002119, AC005527, AC005837, AL157877, AL121893, AC005236, AL136418, AL162724, AL034380, AL096791, AL133500, Z93016, AC000353, AP000008, AC006012, U63721, AC004813, AL132855, AC005015, AC005902, AC020626, AC008753, AC005089, AP000704, AC002472, AC018633, AC006071, AC002094, AC011445, AC007850, AC008267, M89651, AC004996, AL162458, AC002425, AC010422, AC007367, AC021999, AL121751, AC005529, AC005694, AF196972, AC020754, AC002115, AL031681, AC010605, AP001717, AP000045, AP000066, AP000066, and AP000066.
HDTHZ85	625	886163	1 - 582	15 - 596	AW749827, AU122533, AI658864, BF062983, AI827947, AI868879, BE179004, BF917770, AF038238, AF038239, AA481172, AW577376, BG168696, BE964812, AI349004, AL514919, AI873731, BF724691, AI281779, BE887488, AI568870, BF817392, BF343172, AW301409, AL135661, AI521012, AW827249, AW274192, AW103371, BG058208, AI440426, BG151247, AW074993, AL040243, AI349772, AI312152, AW148320, AI349937, AI500077, BE966388, BF882343, BE963035, AI567351, BE781369, AW089572, AW268253, AI345735, AI433976, AV710479, BE048071, AI857296, AL513911, AI499131, AI597750, AW071349,

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HE2AT61	634	834039	1 - 839	15 - 853	AL134876, BE888163, N93417, BE897200, AA133375, AW316629, AI417520, AW275804, AI470244, AI984081, BF003093, AA121249, AW104977, AV712745, AW662853, AA725597, H94651, AW138278, AI245374, AA732779, AA705837, AW193298, AW612807, AI766705, N62806, BF114878, AA456052, AA455414, AA626934, Z40411, N71055, AI636294, AA035495, H09072, AV718692, D80253, AV718489, D80219, AA035078, AV724520, D80210, D80240, D51423, D80134, AV719783, AV718844, D59619, AV720731, AV718681, AV720464, AV742001, D80193, D59275, AV722801, AW973447, AV744934, AV745080, D80227, AV742667, AV741012, D59927, AV699447, AV742720, AV701017, D80391, D51250, AV701043, AV701248, AV743601, AV700229, AV701166, AV700889, AV743008, AV701332, AV744768, AV723927, D80366, AV721784, AV699927, D59787, AV745831, AV744773, D80043, D80196, AV701154, AV701431, AV744771, AV720203, D81026, AV701125, AV701261, AV745724, AV745366, AV745723, AV701012, AV701227, AV720812, AV701118, AV701149, AV719822, AV701163, AV719913, AV745369, C14227, C75259, C01893, AV740535, D50995, C14389, AV737584, AV720211, C14014, AV701428, AV701055, D80045, AV701004, AV701021, AV720150, AV746385, D59889, AV699550, C15076, AV701231, AV701145, AV723097, D81030, AV745488, D80022, AV719324, AV701344, AV746335, D80949, AV700622, D80168, AV699866, D80038, AV718707, D80195, AV745490, D59467, AV746162, AV700495, D58283, D80188, AV701335, T03269, AV701422, AV701143, AV742996, D51799, AV745847, AV701013, T11417, AW959570, AV701419, AW975618, AV744770, AV700086, AV701130, D80378, AV701443, AV742671, C14429, AV718770, AW949642, AI557751, AV721386, AV699682, BE502984, AV745853, AV718800, AV699669, AV701151, AV738934, AV700357, AV745190, T11051, AV719468, AW978634, D80212, AV745588, AV701415, AV745402, AW966053, AV743654, AV745197, AW965158, AW949645, AV738340, AW949653, AW949656, AV720220, AW949629, AW949632, AW949641,

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HE2AX36	635	812337	1 - 1279	15 - 1293	AI768329, AA845414, BG114498, AA876120, AI952072, AI381955, AW103539, AI656552, AI985684, AI743704, AI193599, AW960029, BG231918, AI352493, AI436424, AW513685, BE813330, BE875051, BF666822, AW118942, AW242995, AI521084, AI400995, AA861591, AI283444, AA569972, AI907263, AI147938, AA861706, AA609612, AA164455, AW769344, AA936295, AI185213, AU146885, AI376355, BF667556, BG150484, BF115029, BF694772, AA164454, AA765405, AI399818, AI928126, AA810232, AI375809, AA253442, BG009132, AA573405, AA253441, BF768065, AA128081, C01579, AI470304, BF476162, BE006224, AA126887, AA864370, AA465333, AA813831, AA367084, AV749336, BF848025, AL520500, AA573414, AA969928, AI188018, BE302353, R70179, BE177426, AW080707, BE177416, AI874050, AI933837, AA749454, R46165, R34006, AI559784, AA651927, H88889, AA431610, AI382717, Z28466, R33472, AA249570, AW873513, AI971529, H88890, C18380, AA649336, AF013990, AB011101, AF106069, AF153604, AF106657, and AF105715.
HE2AY96	636	796800	1 - 1757	15 - 1771	Z78377, BE739827, AI080454, AV704089, BE889731, BG170087, AI936815, AI650476, BF981917, AA044661, BG260210, AW778784, AL038706, AW515968, BE155326, AV654034, BE065028, BG119492, BE715996, BF374939, AW071033, BG024420, AV692741, BE744161, BF031460, AI300408, BE880291, AW389886, AW966223, BE250930, AA147878, AW389876, AI818611, AW376006, AI754601, AA478230, BF195018, AA528127, T92912, AW001936, N51968, AI215850, AI421272, BG109214, AI096565, AW152135, AI753043, T92889, T93558, T89314, AW964031, AW389866, T89296, AI141821, AI074438, AA029821, AW338384, AW089600, AI281926, AI752516, BF204950, AA043374, R69929, AI376132, AI220483, AA251672, T92585, AA551443, W73686,

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HE2BD72	637	600349	1 - 685	15 - 699	AI718689, AA523219, H95883, AW962388, AW956077, AV707794, AV706448, AV703460, AV706891, AW962006, AV702109, AW958318, AW962942, AV762957, AW956640, AW963497, AV653153, AW963552, AV725431, AV728425, AV708179, AV702760, AV703063, AV702343, AW963349,

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HE2BH50	638	847056	1 - 1439	15 - 1453	<p>BE612783, AV714585, BF666320, C75683, BE880632, BE887874, BE695911, BE932552, AI377408, AI857934, BG025945, AW024331, AA725652, AI829947, AA454213, BE789978, BE932553, BE932459, AI309773, BE816887, BE932539, BE932447, AW270018, W55909, BE644614, AA861381, BF670186, AA001402, BF696039, AA447415, BG254144, BE932475, BE932540, AI857939, BF968128, AA629424, BF700100, BE646415, AI857941, BE968671, AA858363, AA521350, BE932484, AA454212, BE932439, AI589640, BF245173, AW298803, AV700780, AA447414, W55910, BF195161, BE504467, AA809077, BE816941, BG029271, BG260202, AI475816, N93336, AL533548, BF372428, AI540152, AA523671, BF792635, AA703503, AA629906, AW778874, BE958209, AA431132, AI560791, BF131135, AA861405, AA663419, AW996056, AI139080, AA843632, W95504, AI291233, AI745163, H98623, C75579, AW971769, AI274327, AI027269, AI218737, N93386, BE789099, AI291765, W39740,</p>



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HE2CB53	639	581043	1 - 1126	15 - 1140	<p>AW135413, BF432248, BE348294, AI342411, AW051647, AW959295, AI357458, AI760497, AI651331, AA781093, AW206580, AA251254, AI422368, AA733011, AA910319, AW189184, AI660522, AI440125, AA449756, BE940409, AW410368, AA908520, AA748153, AI332716, AI828592, N64595, W57599, AA043880, AI537296, AA570237, AW028879, AI126346, AA148517, AA782207, AW204415, AW972097, AA976965, W93232, N53238, AA412688, AI149157, AA811355, AW073372, AI610339, AW338889, AA764930, AW189496, AI244150, AI928259, AA425635, AA262971, AI969620, AI924962, AI924984, AI342866, AW316922, AW514535, AI819475,</p>

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HE2CJ53	641	637592	1 - 1869	15 - 1883	AI138775, BF206201, AV692052, BE009663, AI160543, BG116032, BE378635, BF326748, BE272132, BE048861, BE895065, AI971564, BF968301, AI073466, BF221831, BF968816, AW771552, AA404214, AI480339, BE512911, AI688937, AA404683, AA557400, AW373805, BE502099, BF245417, AW516672, N23668, AI888851, AI625779, AI632932, BF239443, BF591713, BF970724, AW269485, BE169724, AW269486, AA700480, AI889700, AI381560, AW439318, AW299589, AI204356, AW269484, BG236353, AA700153, AI004948, AI285978, AI033808, AW273361, BF664554, AA161383, D82557, AW303803, AW271843, AI265934, N59616, W15522, AW594221, AV704046, AI612804, D53720, BE501702, BE503984, BF239728, BE710487, AW769118, AA515881, BG025637, AW291646, AA195140, BE090990, BG110560, AA195272, AA195346, BF248062, BF849453, D80559, N22625, AI825630, AA190852, AA007426, AW243227, D80940, AA812584, AI269236, AA190884, AI470952, AA634226, AW474711, AI038706, AW117655, AW970838, W39524, R76638, T89929, H63951, AA813932, AA884056, R91419, W15411, AA523692, AW801320, AI699944, AW801327, BF913695, BE714560, AI302000, AA161382, AA195347, D82547, AA044991, D82494, AW016790, BE710458, H29578, BG112562, BF087968, AI631281, AI189245, AA007425, T98767, W31605, R75684, AI873005, BF818371, D60381, AI905630, AV657826, AW263931, AW337201, H63674, T98768, BF089301, AA579985, T97607, T97560, BF669474, BF089275, AW581124, AW341132, F02232, Z40790, BE540541, H84562, AA044990, AA732611, BE673623, R29401, N78169, AA348483, T40030, AW374305, N67124, BF374344, AW374313, AW889882, D20935, AI554244, BE178033, BE169478, AI824259, AW751353, AA370721, AU138823, AL137760, AK025831, AK002136, U92027, and AR014050.
HE2CK47	642	834924	1 - 2206	15 - 2220	AA527166, AI056674, AW194319, AI767312,

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HE2CM34	643	603185	1 - 418	15 - 432	AI123715, AI276944, AA737766, AW970230, AA534418, AW970316, BE857491, AI423273, AI423116, AW078610, BE768270, AW295131, AA625625, AA909662, AI566154, R21877, BF435937, R43541, R43420, F08947, BE768235, AV710712, BG059768, D62926, AW080868, AI225125, C21387, Z44903, F11394, BF752397, AA575874, AL036638, AI678688, AI225000, BE393784, AL039011, AW195253, AI307557, AI619820, BE965599, AI582966, AW162194, AI590043, BF725126, AI687568, AI684164, AI499279, AI699764, AI249389, AV682467, AV706341, AI888208, AW051088, AI560679, AW079572, AI570966, N49165, BG029058, AW027898, AL080011, BF871314, AA731711, AL043326, AL514529, AI890574, AI537677, AI699823, AV735161, AI471429, AI401697, AI698391, AI250646, AV736995, AW022682, BG114937, AI923989, BG029228, AI539690, AI285439, BF726255, AI491710, AI421149, BG164945, BE439844, AL046466, AW834282, AI434731, BE886790, AW238764, AI224373, AI540458, AI370945, AV682403, AI049733, AI624293, AI686749, N25033, AL134832, AV682366, BG120493, AI523973, AI446515, AI634457, BF306528, BG180032, AI251187, AI370623, AA765198, AI114703, AW071417, AL040161, AI621341, AW151283, AI469516, AW983832, AI471325, AI589428, AA279293, BF572734, AI537643, AI702527, AI859991, AW983829, AI432570, BF107577, BE966699, AI491904, AI147877, AV707541, AI539260, AW059828, AW188525, BG113299, AW169234, BF813177, AI432507, BG029053, AI954293, AI811603, AI539800, AI096771, BE018334, AA808175, AI287476, AW148423, AW023351, AV682124, AI250627, AI537837, AI884318, AV757495, AL039390, BF814357,

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HE2DG46	644	731958	1 - 1785	15 - 1799	<p>BE067425, AA688217, AI433008, AW879550, AI821259, BF874758, BF857083, BF828577, AL042853, AA764903, AW827205, AW843301, N52358, AV733029, AA659232, BE902562, BF764474, AW963750, BE901529, AW022655, AW935121, BG249643, BF337291, BF342223, AI345797, BF874773, BF764476, AL042567, BG029528, AA662117, AI821062, AL042753, AW083846, BF961983, AI133029, BE138599, BF343686, BE277210, AI557808, AI249880, AA618452, BF339483, AA877935, AL135357, AV726091, AV760019, AI208328, AV658084, T27702, AW819125, BE276480, AA853473, AI914923, BF918950, AL138455, AI085242, AW081103, BG261387, AI440117, AW962444, AI805349, AV682853, BE150580, BF676981, AV711465, BF965290, AV733400, BE378571, BE737801, AI821788, AI821745, AC011475, AC009228, Z83844, AC002430, AL035697, AC024067, AL135928, AL022147, AL136304, AC007384, AC004966, Z99495, AC018637, AC012064, AC009955, AC006983, AC003071, AL049795, AC007100, AL353807, D84394, AC005181, AC011484, AC004989, AP001717, AC011751, AC008071, AP001705, AL136170, AC005875, AC005520, AC005280, AC005919, AC004690,</p>

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HE2DI16	645	604029	1 - 1507	15 - 1521	AA810165, AI754653, AA535216, T74524, AW970571, AA720702, AV759632, BF917346, AV763026, AV763058, BF725844, AV756491, AL135377, AW873261, AI284640, AW958962, H07953, AI962030, AV762633, AL041690, AW974932, AW073470, BG010084, AA613624, AW833862, BF826830, AI963720, AA632757, BF589824, AW410354, AA572813, AW505253, BE138594, AW502975, BF681619, AV764259, AV760508, BF854308, AA225406, AI251576, AW970877, AW572721, AI334464, AI344812, AW662543, AI923451, AI635028, AW272294, AI254779, BF868994, AA772906, AV763457, BF828714, AI521525, AI754567, AV756809, AL048626, AV760915, AV757289, AI687343, AA704393, AI583466, AL079734, AL121235, AW193265, BE301584, AW501386, AW500684, AA503298, AA084609, BE019467, BF991286, AV759203, AW500125, AW088846, AV759149, BF727101, AI923458, AC027319, AL354889, AC011742, AC002350, U91321, AC007938, AC005527, AP000049, AP000311, AC020913, AC005783, AC005529, AL117334, AC010463, AP000116, AC008685, AL034429, AP000131, AP000209, AC004816, U91318, AP001713, AL358777, AC002044, AC005736, AC006441, AC004828, AC020908, AL137145, AC004655, AL009172, AC009123, AC018738, AP001710, AC004813, AL353701, Z83847, AL355103, AC005082, AL109823, AL050350, AC005274, AL035671, AL133232, AC007371, AC002554, AL049569, AL136295, AC005678, AC006538, AC084732, AL109824, AP001725, AC005225, AC010150, AC005324, AL133387, U91323, AL445192, AC008738, AL031668, AF285442, AC008760, AC008812, AC003982, AC008273, AL136303, Z95152, AC007546, AC022392, Z83844, Z83840, AP001718, AC068799, AC002306, AC005972, AC005874, AF134471, AC004552, AL157384,



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HE2DJ84	646	746643	1 - 1171	15 - 1185	AL518032, BF792304, BF966763, AW965135, BF796809, BE876847, BE567005, BF969125, AI582348, AA020846, BE868735, BF672588, AA446089, AI831220, AI762512, BF966623, AA449315, AI245992, BF939502, AI765499, BG054719, AA258862, AI037872, AL120396, AA927765, AA972524, AI190558, AI375842, AI421157, N32602, AI087076, AI310973, AW129209, AI761590, N24248, AI051698, AI138323, AA431851, AI039606, AI374782, AI708704, BE677297, AI769219, AA236018, AI356857, BF802556,

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HE2DY23	647	877491	1 - 1635	15 - 1649	<p>AV747567, AA127204, BE378624, BG118538, BE867405, BF944754, BE729239, BF981239, AA487373, BG109303, BE778123, BE869041, BF330975, BE894421, AA084186, AU124289, AA083896, W48615, BE891319, BF963065, BF970664, AV708698, AA888475, AI187732, AL138270, AW105342, AA497043, AI217700, N75789, N22568, N25552, AA515348, AA584870, AA429414, AA706963, BF112103, AA564655, AA361303, AW900465, AI146754, T07502, AL031428, AB011173, M87652, AL049569, AL008637, AC018634, AC018755, AL049832, AF017104, AL031466, AC004079, AC007955, AL161621, AL138725, AC016612, AC002300, AC004087, AL031584, AC016831, AC005046, AL355612, AL359272, AL023581, AC005000, AC018812, AC007272, AL391724, AL050326, AF110324, AC087084, Y19216, AL160253, AP000131, AP000209, AP000247, AP000476, AL353140, AL359641, AL139087, AL033527, AL049693, AK024879, AL021919, Z93942, Z77249, AF293358, AC005725, AP001690, AP001710, AL158050, AL137780, AL008712, AC005191, AC004223, AC005157, AL096827, AL096791, AC066590, AL139187, AC005859, AL031132, AC007597, AC005517, AL121578, AL161672, AL161672, AL031428, and AL031428.</p>

HE2DY25	648	844237	1 - 3470	15 - 3484	BE467087, AV658411, BF674940, AW959911, AI814556, AW172331, AI697843, BF111090, BF062573, AA194149, AA194146, AW965389, W74616, AI755254, AW138578, AI655337, AI753287, W94709, AI128240, BF435656, AI498242, AI753432, AW806648, BE348775, AI689772, AA758915, AW592078, AA903180, H10450, N54303, AU149421, AA642425, AA487432, AI270312, AI073358, AI167329, AA889598, BF114947, AA126824, AI332987, AW241875, AW583264, AI689791, AI362749, AI761951, BF445392, N62879, AI368772, AI370777, H49166, BF475299, AA987614, AI332423, AA127307, AA421057, H99263, AI333792, N77786, AA903009, AV655306, AI802005, W94188, AA235233, AA487640, AA702576, AA768716, AI207967, BE737978, AI435328, T93917, BG222922, N63992, AI275668, H10451, T80943, F09058, BG222086, BG222858, N79670, AW020415, BF244417, T94316, AA872493, H30545, H30532, T93873, AI202889, AA327610, H49083, AW262522, T90382, AA758655, AA778528, AA649251, AA370625, T80942, AA333827, T83121, BE827287, BE547432, BE970086, AW751005, AW751006, N30489, AA021153, BE000247, AA876662, BF088923, AA650537, AW812404, BE066983, AA551254, AA640396, AW610213, AK022729, AX017601, AX017471, AC004216, AC026431, AC004491, AP001714, AC010267, AC007404, Z98941, AC008403, AL035413, AL139421, AC005488, AC008752, AL137787, AC005736, AC008556, AC005522, AL353777, AC016831, AC005899, AL031905, AC007739, AL035410, AC007248, AC021068, AC012614, AL132825, AL132777, AC004794, AP001724, AC002994, AL050325, AL450169, AC005821, AC007151, AC004906, AC000159, Z98200, AA235232, AC018891, AC018891, and AC018891.
HE2EE80	649	847057	1 - 1579	15 - 1593	AV705244, BF978933, AW956294, BF699735, BG252197, AU146959, BF666109, AI801246, AW237844, N71192, AU154208, N21990, AA626652, AV706508, BE768219, BE768214, H29558, R71638, AA372632, R71138, R60955, AI625867, H61234, R36597, R36598, N71875, D62232, BE701241, BE704351, BE701242, H61244, BE833768, AK001646, AL050078, AC012486, AC012486, and AC012486.
HE2EH45	650	581520	1 - 919	15 - 933	BE900507, AW027206, BE379430, AL518793, BE748543, BE739539, BE869963, AA643313, AI609386, BE271679, AI978946, BE735231, BG028840, BG110366, BE877291, AI591084, BE396310, BG169112, BG254156, AI609523, BF976242, BE621306, BG107828,

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HE2FE89	651	780314	1 - 1671	15 - 1685	AA196322, BF575344, BF574288, BF791238, AI684982, AW606573, AA196325, BF673000, BF670851, AI341656, AA430209, AI335965, AI352121, BF692947, BE645371, AI201986, AA211614, AI470238, AA192750, AW451625, AI452745, AA194513, AI682432, W73816, AI991816, BF673140, AW451000, AA211704, AA836809, BF574573, W67963, BF670460, W67269, AA693871, AA192303, BF790277, AA253484, BF694699, AA443846, BF790234, F36701, AA086432, AA086443, BF790512, AA927795, AI352240, AA248635, N75829, F19083, AW966601, BF670969, BF573979, BF672223, F30123, F00752, AV654977, AV655000, F00161, AV654988, AA649555, AV654987, AA649529, AV654999, AA501424, AV655011, Z25079, AA211430, F19673, F00106, Z25213, F18666, AA253314, BF574033, BF672492, R17931, BF574775, AA526262, Z19383, AA385000, F29125, F00241, BF744784, F00738, BF992838, AW859439, BF528297, AA192774, BF695121, BF671184, BF670305, BF820649, C03535, BF790574, AU140357, BF671400, BF692846, F33877, W68020, BF350885, BF574895, AA328360, BF672581, AA095973, AA708845, F00157, W73850, W67384, BF791025, BF573820, BE546350, BF672143, BF671453, BF576830, BF670353, BF576684, BF693662, BF695333, N87272, BF111777, BF694590, BF693457, BF693460, BF575736, BF575771, AW163359, AB016587, AB016588, AF061258, U48247, AP001968, AP001968, AC025086, and AC025086.
HE2FR49	652	714456	1 - 512	15 - 526	BE171964, BG253577, AW474317, BG255616, AV755592, BE162826, AW877209, AW804686, U46341, AW392670, AW861944, BE695785, Z99396, AW372827, BE705905, AL119497, AW604723, BF868687, AW858526, BE705903, BF868697, BE705906, AW858525, AW577135, AW384394, AW861889, AW858455, AW861954, BF868684, AW363220, AL119496, AL119443, AL119341, AL042965, AL119483, AW604726, AL119396, AL119319, AL119418, AL119457, AL119522, BE705904, AL119324, AL119363, AL119484, AL119391, AL119355, U46351, AL119335, U46350, AL134518, AL134538, AW979212, AW975037, U46349, AL134920, AL134531, AL134533, BG059382, AW969885,

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HE2GB19	653	566808	1 - 1568	15 - 1582	W07749, AW139095, AI822121, N80689, BE676746, AI635513, AA701596, AI732279, BF592822, AI797369, BF062011, AI206972, BF589156, AI825609, R52055, R53021, BG180503, AC005154, AF131216, Z93023, AL136298, AB032969, AL035070, AL109659, AL135901, AC073486, AL035398, AL022397, AL355838, AC004403, AC004989, AL035704, AL450170, AL033397, AC021049, AC004673, AL121776, AL021391, AC010198, and AC002086.
HE2GO81	654	688043	1 - 254	15 - 268	BE350594, BF447288, AI378511, AU153362, AW614382, Z28840, AW614309, AA641881, AI276949, AI755010, BF062289, AI611646, AI652385, BF056615, AA034069, AA703075, AU146532, AI949847, AI559931, M85811, AW956104, AW956103, BE719083, AA587947, AA284869, AC018712, AL157701, AC020681, AC020681, AC018712, and AC018712.
HE2HB61	655	798113	1 - 741	15 - 755	BE645530, AI806902, AW384008, AA196050, BE156266, AI014696, AA195796, AI088567, AI421504, BF575665, AW450261, BF672086, F25935, W67459, AI278001, AW384001, W58654, BF790359, BF826047, W67458, F22663, W95432, F22056, F28677, F27909, BF126287, BF694738, W56735, F29875, F18827, F19563, F33725, F22551, AA196465, F30315, AI126997, F22314, F35047, AA913855, BE156338, F32532, AA112042, F21617, F21679, F30181, W58333, F31620, F31798, AA662898, F31795, F28482, F32755, F31839, BE156335, F34625, AW051121, F25217, F21605, F26159, AI867355, BE840251, F33058, F29031, F29770, F34806, T83254, W95559, F32610, F24288, AW952433, BF693155, AA747162, W56670, T90724, F18810, F18621, BF222001, F34683, D81294, F17681, F36422, AW955614, F32064, AA328218, F21167, F31217, F23400, AA328525, F18591, AW975618, AV699550, AV718692, F17182, AV742732, AV724520, AV718489, AW978634, AW966053, AW966531, F36185, AW973307, C14429, AV719557, AV699669, AV723927, D58283, D80043, AW949629, AW965177, AV719822, AW966534, AV699927, AV742048, D80166, D80188, D51799, AV719783, AV699447, D51423, D59619, AV720464, D80210, D59859, AW960553, D80240, D80253, AV719324, AV721386, AV720211, AV720731, AV722801, D80212, AW949656, AW949642, AV741220, D80195, AW966054, AW975621, AW959570, D81030, D80219, AW949645,

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HE2HB64	656	695713	1 - 1861	15 - 1875	AU122450, AI828160, BF540995, AL135426, AU160586, BF061448, AU145403, AI921499, BE876734, AI802880, AA628949, AI632898, N73275, AI655940, AI015196, AI912664, AA620611, AI141962, AU156366, AA722776, AI301037, AA257110, AA386065, W92515, AW235263, AW471368, AW803303, AI191793, W92516, AW236739, W02786, BF448938, BE840881, AW627813, AI535805, AU118959, BE004194, AW593511, BE164397, AU143505, H14373, AW051640, R40298, BE005569, AA453924, AV734391, D25755, Z39161, BF764579, AA226963, H87112, AA386066, W30926, AK001873, AK021735, AK024050, AC022826, AC022826, and AC022826.
HE2HF76	657	637594	1 - 1208	15 - 1222	AA631990, BG109862, AW612937, AI039778, AI004959, AI094075, AA449725, AI355046, AI628207, H29221, AV755884, AA370027, AA234495, AW079218, AR077239, AF294429, AF212224, and AF033566.
HE2ID09	658	815657	1 - 2034	15 - 2048	R01742, R01743, and AL121933.
HE2IE66	659	830436	1 - 1732	15 - 1746	AL532651, AL041152, AV729542, AV729089, AV714609, AL532698, AW382888, AI670894, BE825514, AI693476, AI816778, BE467083, AW382934,

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HE2NW57	660	638615	1 - 502	15 - 516	AW962375, AV653809, AV707510, AV703978, AV646736, AV705504, AV708988, AV704590, AV705684, AV704401, AV702787, AV650367, AV656004, AV703505, AV701704, AV709356, AV729129, AV728715, AV727822, AV701728, AV701832, AV702783, AV702071, AV701858, AV709273, AV707794, AV727459, AV726628, AV707311, AV706104, AV706223, AV709932, AV650843, AV705239, AV725031, AV656240, AV702854, AV707948, AV687909, AV689800, AV726653, AV703417, AV704981, AV703761, AV647654, AV728997, AV706882, AV707401, AV702187, AV651897, AV705866, AV702851, AV709596, AV729473, AV727238, AV701184, AV705299, AV709025, AV707783, AV702354, AV727314, AV709935, AV645545, AV701879, AV706992, AV685688, AV692972, AV702498, AV703090, AV727469, AV687342, AV647692, AV728546, AV701183, AV727355, AV729366, AV652156, AV702339, AV726754, AV691615, AV729220, AV702280, AV709733, AV707322, AV701953, AV702954, AV705814, AV701874, AV727126, AV707088, AV701449, AV693005, AV704059, AV686417, AV704924, AV707649, AV707556, AV684811, AV708991, AV706683, AV706734, AV705532, AV709235, AV658362, AV729076, AV725991, AV704520, AV705416, AV727029, AV729408, AV705550, AV706527, AV687176, AV707458, AV703213, AV655096, AV707117, AV701499, AV704279, AV706910, AV727103, AV662242, AV645768,

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HE2OA95	661	637595	1 - 1657	15 - 1671	AI620217, AL528146, AI056665, AW964795, AI744518, AI038199, AA236476, AA747220, AI368718, AI888960, N47941, AA234584, H19150, AI360711, BF445507, BF475619, AI682413, AI468582, H05762, AA297549, R52959, N46864, T27100, AA736703, AA579494, H18483, BE855666, Z40989, AI474169, R41378, AW973144, BF982162, N49148, AL157430, AF179274, AR052523, AB041565, AB017270, AR052522, and AB004064.

HE2OC39	662	587266	1 - 1342	15 - 1356	BF818114, AA328351, AI381660, and BF679617.
HE2PB61	663	847379	1 - 866	15 - 880	AL530321, AW269723, AI690613, AI806071, AA809640, AA978030, AV745240, AA873189, AA604003, AA975586, BE695019, AV745339, AW439737, BE702894, AV745272, AA470963, AV745289, AV745214, AA329432, AW007109, AW009507, AI955863, BF332895, AA328195, AW862347, AW821878, AW821879, AW821881, AW821872, AW860152, AW860130, AW821877, AW821873, AW862384, AW860155, AA576327, AW860127, BF334617, AW821883, AW821882, AW821874, AW860157, AW860131, AW860198, AW860156, AW860129, AA628795, AW860200, AW860203, AA904745, AW860128, BG165225, and AL359554.
HE2PI43	664	847380	1 - 989	15 - 1003	AW590590, AW590640, AI379778, AW772655, AI698035, AA564115, AI224519, BF437798, AU157586, AU153666, AI681075, AA595918, AA070166, AI801853, AA456639, AI741671, AW450829, AI282125, AA954818, BE177187, T64939, AW939259, AV712649, AW449949, AI075837, AI656786, AA680318, AI287907, R38650, AI129963, AW451862, AI220976, AI014365, AI215837, AA993828, Z41471, R51278, F10556, BG170805, AW028835, AA935033, T16637, F08912, AW614051, AA948253, AW001621, T75270, AI650639, BE550556, AU158379, AA329710, N80398, AA206401, AI978912, N67977, AI168351, Z45834, AB040380, AA257162, AI800133, F12958, AA716767, AK023634, AL050321, AF252257, AK023759, and AL050321.
HE2PJ56	665	721283	1 - 1047	15 - 1061	AU119052, AI761578, AA426498, AU117617, BF196385, AU144401, AI095823, AA330447, AA235412, AA329787, AA328371, BE958048, AU155531, AL137157, AK021543, AL137157, and AL137157.
HE6CJ41	666	604908	1 - 1066	15 - 1080	AI114828, AA465689, AW844636, R07136, AI686563, N27657, AI524712, AW300749, BF983604, AA078384, AA584527, H58252, AC007038, AC002316, Y18000, AC006487, AL121970, AC004620, AC005730, AC009363, AL022316, AF116661, AL158830, AC005529, AL139039, AC007387, AC005232, AC005067, AC006511, AL136971, AC009155, AC007436, AL139396, AC005049, AL049643, AC009403, AL078638, AC004882, AC006038, AC005799, AL121933, AC008521, AL117332, AL354752, AL109936, U17084, AC024082, AC008848, AC009502, AC012442, AC006088, AC005231, AC021999, AC023510, AC021016, AC005013, AC020754, AC004132,

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HE6DC37	667	658675	1 - 450	15 - 464	AA772397, AW014080, AI799589, AI217776, AL524148, AI735602, AI818675, AA513002, AW409592, AL522436, AA478326, BE646171, AI005409, AA552147, AW177019, H42123, R00846, AI491808, AI560335, BE613582, BE617237, BF089287, BF095098, AI275309, BF752321, AL118502, AC004064, AC004064, AC004064, AL161939, AL161939, AL161939, AL118502, AL118502, and AL118502.
HE6DN83	668	695715	1 - 1694	15 - 1708	BF035049, BG168720, AL521319, AA829631, BE779574, BF984318, W29089, AI023778, AW269392, AI262246, AA854845, AI401629, AI246715, AI911280, AW303449, AI092632, BF032840, H18080, AW340516, AW130314, AI367155, BF591484, AI369370, AI023788, AI633595, AI151381, AW029360, AI248659, BG163744, AA047777, AW439584, AW183522, AI401027, AA961013, H17390, AI684684, AI332436, AA960799, BF095229, BG113850, T35017, AW193632, AA215551, AA456516, AA987477, AA954407, AI784083, AA844130, R01045, R01263, AI745525, AI279642, Z45373, AI863839, AA343284, AA057780, AA807067, AA812551, AA926756, AA380755, Z41087, AA906623, R01044, BF325674, BF662882, C00471, AI342140, R28531, BF057468, R01377, BG180578, AW965048, BF770972, AI000681, AW371248, AA515557, BG261446, AW372165, AW867698, AW748644, H12163, BF789890, R35607, R21083, AL034380, and AF029081.
HE6EI30	669	847381	1 - 589	15 - 603	T34959, T36248, AI750464, AA453215, AV708450, BE251213, BF686192, BE312535, BE384103, AL524568, BE393518, BE264160, BE394174, AL524569, BE261260, BE789954, BE386260, BE909980, AL528912, BG025103, BE885058, BF965384, BE868543, BG031995, AL528911, BF667684, BE727184, BE792247, BF675055, BF699496, BE909979, BF125988, BG035136, BE563876, BF105095, BE787466, BF310999, BE869065, BG255299, BE798939, BF206089, T31916, AA776629, BF104105, BE563783, AW954220, BF035601, AA804473, BE564490, AI879945, Z43084, BF693758, AR070327, AL157902, AC016889, and AC016889.
HE6ET70	670	732156	1 - 1401	15 - 1415	AI565566, AL048442, AA526878, AA969301, AA631390, R06560, R06561, and AW148439.
HE6GO65	671	647591	1 - 766	15 - 780	AW450911, AW410692, AI951832, AI693173, BE301426, AA890332, R42860, AA581029, AA917775, H39068, AA047813, AI263681, AI027868, AA034281, AI038007,

					AA580963, C20605, AI467911, AI264850, U17538, AC007993, and AC015937.
HE8AN83	672	833052	1 - 3320	15 - 3334	AL044634, and AA331720.
HE8AU68	673	821324	1 - 904	15 - 918	AW962655, AW962659, AA331886, T89841, T89745, AC021680, AC021680, and AC021680.
HE8BE20	674	815787	1 - 3179	15 - 3193	BF339911, BF982096, AI927669, W73853, AW188021, AW770478, W72716, W73819, N28900, AA928112, N21488, BF790120, AI913512, AA604358, AI431628, AI697341, AI691028, AI338392, AI079403, AI828113, H97538, AI144448, AA033677, N40087, AA033654, AA452704, AA148793, AA332327, AI051402, AI253102, AI335900, W95221, W77887, W92522, AA148524, N23627, H48669, BF836584, AA317582, AI188071, AA853374, BF000981, AI749182, H98465, AI370541, AI868132, AA346971, AW889237, H12925, R20385, AI754442, AA460779, BF365386, AA096372, BF094167, AL133217, AX013738, AC040908, and AC040908.
HE8BP05	675	845980	1 - 1845	15 - 1859	AI521759, AL513763, AW827249, AL038778, AL135661, AV711924, AI758437, AI678989, AI499463, AI868831, BG257535, BG180996, AW162071, BG179993, AL514627, AV681902, BF817926, AI568855, AL513597, BG036846, AI699857, AL513907, BF343172, AW301409, BE047863, AL134259, AL036146, BE781369, BF792469, AI684265, AL121270, BG109270, AV655645, AL045500, BG030189, AI800433, BF342070, BF883916, AI340582, AI349772, AW068845, AV757355, AV711509, AW827203, AI678302, AL043326, AV756770, BG058208, AI521012, AV717179, AV682479, AI433976, AI282903, AI800453, BF340104, AL514919, BE018334, AW169653, BG112879, AI207510, AW074993, AI349614, AI349645, BF724691, BG179633, BG168696, BG107847, AW268253, AI312152, AW274192, AL036396, AI349937, BE048071, AI862142, BF726421, BF981774, AI613017, AI349957, AI440426, BF795712, AV681857, AI590128, AW071349, BE964812, BG120816, BE047952, AI349004, AI702433, AI269696, BF971016, BE964700, BG104782, AL513837, BG032214, BF885675, AW089572, BF882343, AW303152, BE048081, AV756328, AI433157, AV757797, BE877540, BG164371, AI873731, AL047042, AL119049, AW999049, BG151247, AL036802, BE963035, AI580190, AV681716, AI702406, BG260037, AW071417, AI635461, AI440239, AI271786, AI625079, AI281762, AI283941, AI432969, AI580984, AI597750, AA508692, AI445025, AL047763, BG029399, AI274541, AW104724, BE877769, AI682841, AW087445, AI269205, AI538716, AV755207, BE879906, AV758179, AI281773, AI282281,

0950083 091201

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HE8BP64	676	847059	1 - 2853	15 - 2867	BE897903, AI207720, BF968082, AW953725, BF380509, AV698376, BG023942, BF572409, BE738071, BF795586, BG114226, AI568519, BF184542, AA143047, BE393275, AW515777, AV714869, AW168109, BF115650, BF541469, BF669653, BE867879, BG107589, AA609408, AW242902, AV712744, AA868581, BF029429, N56907, BF357352, AW966802, AI057606, BF239712, AW664127, BF357377, AA481152, AI623695, AI539097, AW664580, AA288023, AI050869, W51975, AA477324, AI571853, BE738227, AI190703, AA150906, W48680, AI051340, BF209797, AI336466, BG054859, AA479639, BF764926, AI979017, AW058037, D19589, AI591175, AA632153, AW964417, AA434552, T30222, H97703, W90679, AI440180, AI159897, AW900007, AA917662, AA481230, AW193921, AA403025, AI828435, AI364090, AI889568, AI095249, W79496, AI910478, N55040, AW105662, W38894, AA742943, W69239, BF983593, AW771872, BF928514, AI097122, AI524433,

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HE8BQ49	677	589443	1 - 1861	15 - 1875	W35257, AC009225, U49973, AF036938, AL445225, AC006142, AC006077, Z74739, AL023755, AJ271735, U70984, AF241734, AC009312, AL121753, Z82206, and AC009225.
HE8BR18	678	731933	1 - 1637	15 - 1651	BF980280, AL043470, BE621737, BE644712, AW965010, BF475351, BE645923, AI342480, AW026031, AI936726, AI761435, AU153857, AU155023, BF806857, AI341694, AU149729, BF243129, AA410233, AI870200, AI148563, AI380995, AI086566, AW070833, AA195093, BE620797, AW572256, AI913213, AA165261, AI375554, AU157769, AA581399, AA843568, AA291144, AA250914, AW578735, AA576930, AW578739, AA770223, N70829, AW578772, AA976552, AA600925, AI139582, AL036482, N53414, N93811, AI085600, AA969364, AW591767, AI128159, BF802641, AA737476, AA417717, AA258395, BF590593, AI625295, AL353985, AA258135, AA829103, AI263533, AA173956, AA280291, AW188911, AA761134, R70092, BF808930, AA232532, H81674, W42860, R78404, AI147659, R94539, AI611779, AA342479, W01426, BF831599, H67558, AW369843, H22913, AA610802, AI572268, BF825914, T69760, AA768136, AA617933, BF923160, AA361224, H67557, AA866051, BE964642, AI580069, AI431657, AA765142, BE828089, AI333901, AW379693, H24091, BF676218, AI559876, AA490617, AI092995,

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HE8BR30	679	839469	1 - 2278	15 - 2292	AA332555, and AL356134.
HE8BT58	680	806144	1 - 3546	15 - 3560	AL521404, AL524621, AL521403, AL524622, AW978618, AL529722, BG256352, BE909801, BE783472, AW953057, W60630, AA149513, W29012, AA149644, BF968833, BE783711, AW965598, AW977554, AA306190, BE834598, AA404374, AA928795, AW026671, AA146937, AA733045, AI131505, AW051295, AI139050, AI144018, BE855656, AW162934, AI089282, AI571763, AI351676, W60631, W76344, AW005213, AI146486, AW262622, AI557215, BF366791, AA635131, AA780109, BF734995, W74364, AA978196, AA029134, AA810705, BE464631, AW953559, AI801697, T78682, AI312742, AI342567, R48289, AA131882, BF735141, BF935670, AI282048, AA082108, BF928374, H75569, AA905202, AI829282, BF679948, T24058, AI092790, AA588293, AI439728, AA502173, H42085, AW663136, AI440039, AW087504, T08858, R90877, AV742679, BE843533, Z38370, AI131104, H71948, AI350488, AW577404, H73479, T31728, AA931102, R48391, Z42102, AA131883, AI147653, BF987166, AA043328, AW292641, T32676, AA028967, W24023, BE929490, R49179, AI341539, AA346440, AW444574, AW206307, Z26990, BE784054, BE765795, AA603550, AI582869, AI992265, AA043327, AI937029, T35070, AV750563, BE835761, AA995574, BF894862, AW391018, AW892235, BF952084, BF735796, BE762873, AV703909, BE839001, AI720969, AI269580, AW149925, AI537261, BF970652, AI469587, AI884318, AI961589, AI559752, AL514473, AA857847, BF814450, AW129230, AI446248, AW082623, AI282355, AI886055, AA514684, AI799674, AL514791, AL040011, AW087901, BE965724, AI567582, AI637584, AL041772, AI359412, AI538247, AI669639, AW105588, AI263312, BF814453, AL513693, AI978703, BF904265, AI581033, AL513779, BE891834, AI254727, AI623941, BE011880, AL514793,

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HE8BU60	681	751704	1 - 1888	15 - 1902	AV703409, BF978332, AV702357, AW961615, BE220725, AW014746, BE502843, AW439556, AA465322, AI890276, AI500603, AI358086, AA179376, AI908336, AA321970, AI872879, AW905188, AI886014, AI885975, H87239, AA836181, H45599, BE670132, AI681376, AL157579, AF199335, AF199328, AF199329, AF199323, AF199325, AF199324, AF199331, AF199330, and AF199322.
HE8CA13	682	761717	1 - 1524	15 - 1538	AI770069, AW516128, AI735574, AA732944, AI246003, AI830019, AI366785, AI540192, AI143998, AA262416, AI218407, AW418936, AW663059, AI190371, AI190907, AI346648, AA251024, AI304589, AA459438, AA251123, AI698595, AA947174, R63256, AA983593, AI051090, AA548190, AW316991, AI873557, AA938120, W32046, W31358, AA335785, AA709343, BE765687, AA653117, AI497742, R63210, AA262417, AW448930, BE676349, AI498577, AI028022, AI431281, BE934511, D25816, AL355520, AL355520, AL355520, and AL355520.
HE8CC34	683	753266	1 - 2134	15 - 2148	AA376873, AI251034, BE154832, BE139139, BE069140, AA602906, AI250552, AI343144, AI251284, AI251203, BF673854, BE138387, AU118374, AF075343, AI284543, AW438542, T74524, AL449689, BF725844, AI253987, BE154909, AI733856, AI223626, AI801505, BE968477, H07953, AA622801, AI254770, AI754653, BF526552, BF573987,

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HE8DG02	685	580191	1 - 1628	15 - 1642	AA670223, AA927586, and AL122118.
HE8DK52	686	658676	1 - 1769	15 - 1783	AA291340, AW974468, R61131, BF329812, BF329810, AA648545, BF768344, BE243760, AA291341, AV653450, AI206640, AA761633, R61849, AW854316, AL117474, AP000510, AC005932, AB023048, Z82178, AC005912, AC004491, AL117377, AC008474, AC006163, AC011455, AC006132, AC007386, AC018738, AC006509, and Z82206.
HE8DZ94	687	877630	1 - 1785	15 - 1799	BE222956, AI684587, BF000801, AA610052, AI189791, AI186697, AI751250, AI310126, AW969490, AI188971, AA906201, AA019739, AW264561, AW009062, AI361312, AV713790, AA887119, AA971980, AI580662, AA088862, AI261311, AA575958, AA018414, AI268976, AV715976, AA904689, AI784506, AI654089, AA838000, BF968896, AV715267, BE874627, AV713864, AV763925, AI800634, AA018103, BF920846, AA833673, BF971170, AA809439, BF434508, AA970480, AI419770, BF335535, AW189948, AI806808, N40196, AA886637, H38658, BF128924, AA059058, BF036411, AA809455, AA532665, AI538082, AW514695, BE410537, AA887381, T50287, AI083552, AV758546, AV741671, T47520, BE765444, BE621190, AA054140, H86494, BG170547, AA469072, AI933491, AA935534, AA634291, N58823, AW806525, BG170489, AW750631, AW750632, BF671419, AI799084, H86061, R24685, BF541893, AW614415, C21487, BF675694, AW440198, AA482137, BF700725, AI971218, AW879904, H66403, AW958036, AA570041, AA555150, AA494063, H78365, AA935511, AI807280, BF376603, X85594, AA019783, BF681045, H78462, AA632718, AI338489, AV682353, AW883576, Z19788, W01156, AV709540, AA016261, N28787, BF512652, AX017986, AF182041, AF151877, AF113127, AF182414, AL117550, AF161526, and A74434.
HE8EN79	688	801901	1 - 3184	15 - 3198	AU118398, AU118604, AU119459, AU139253, BG108000, AI133482, AU123862, BG164325, BE878602, BF056623, BF340418, AI207619, AU145121, BF979061, AI871686, BF102641, BF576512, W56253, BF209891, AI554963, BF693470, AA464814, AI818464, AA129822, AW276576, AI095941, AA593694, AI439752, AI225025, AI889447, AA826510, AI476400, AI240110, AA886941, AI802031, AA765547, AI720362, AA052910,

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HE8EX86	689	823176	1 - 4171	15 - 4185	AL519484, AL522910, AL520878, AL529336, AL529335, BG109729, AL520877, BE797344, BE731640, BF967912, AI858279, AI188079, BG117697, BG168921, AL519483, BF305648, BG027564, AW510766, AI566693, BG252987, AF074660, BE781156, BF666286, BE535684, BG258449, BE568196, BG026332, BE784248, BF528515, AL039297, BG033029, BF308055, AI375639, BE869671, AV758815, BF968526, BG119553, AV707787, BE548072, BF724787, BE973963, AA548407, BF573617, AW965965, AI763390, BF310045, AW953914, AA485484, AI922517, AI734101, AA524813, BF540977, BF028235, BG180364, AW956699, BE504153, AI953897, BE546763, AA527506, AI216557, BG036952, BE565460, AI587278, BE251322, AA172048, AI083526, AA887335, BF108991, BF435932, BF970600, AI697375, AA485327, AL522909, AL043966, BE552364, AI168738, AI127998, AI037976, AA527235, AI393493, BE894092, AA765919, AW953906, AI337128, BF575762, AI400062, AA865416, AI923439, BE568613, AI636753, BE217749, AI655352, AA316777, AA568163, BF573132, BF998280, BE551694, BF970597, AA232747, AW075590, AA676619, W67590, AV735667, BF590124, AA024572, AI990254, AI590393, AA113244, BG149475, BF381577, AA633107, BF038406, W04191, AA922413, AA190875, BF814563, AA830219, AA513103, AA484861, AA232740, BF378609, AW305160, AA232252, W80757, AA081795, BE178595, AI223327, AI273291, BG180302, BF817800, AA773935, BF820415, BF029406, AA258263, BF060998, AW339954, AA232199, AW069556, AA976846, AA921837, AV709414, AA113770, H92827, AW891598, BE178638, AW675344, AA079800, AI370116, AI690403, AA910370, BE502416, BF438751, AI632544, AI652850, AI655353, BF817801, AA716388, R51654, AA576495, BE550303, AW024646, AA177052, H70097, BF809072, AA621664, AA086472, AI651500, AA897407, BF793670, BE932331, H14659, R84326, AI203141,

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HE8FC10	690	693908	1 - 1040	15 - 1054	<p>AI950086, AI057087, AI826653, AW954612, AW954614, AI088630, AA780370, AI223349, BF588538, AW954611, AU156564, AA532914, AI700273, AI865501, AA468832, AI923204, AW074440, AW083265, AW028208, C00063, AW054728, AI382369, AW950018, AW963483, AW954902, AW956762, AV702351, AW949942, AW959275, AV701759, AW951235, AV707155, AV729094, AV726934, AW950635, AV709549, AV708388, AV727352, AW964490, AV709356, AV704170, AV729045, AV707806, AV725386, AW949451, AV728546, AV709939, AW958163, AV704771, AW950976, AW960689, AW960528, AV703855, AV706342, AV708647, AW959823, AW951526, AV658436, AW955704, AW966539, AV698609, AW957653, AW954228, AV725273, AW957102, AW962388, AW962649, AW950411, AV727381, AV703035, AV727187, AV706443, T18597, AW949478, AW949383, AW951291, AV725255, AW960237, AW966634, AV725550, AW966825, AV728309, AW951562, AW962408, AW950194, AV725393, AW955724, AW949750, AW962978, AV728404, AW950443, AW954000, AW965874, AW955645, AW961590, AW960601, AV688766, AW951536, AW959804, AW952403, AW952196, AW952183, AV709555, AW959830, AV727017, AV704767, AV704974, AV704116, AW952751, AW956075, AW958871, AV645936, AV725387,</p>

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HE8FG15	691	799520	1 - 2458	15 - 2472	BF528706, BF511685, AW009394, BG105519, BG254081, AW960390, BF525928, AW007097, AW188653, AA621896, AU158667, AI308853, BF691095, AW629142, BE907379, BG023998, AA024539, W68163, AW182327, H92979, BE501512, AI745277, AI832718, AI823734, AI770031, BF215995, AA449738, AI096535, AI281067, AA863106, AI359520, AA584416, BF086852, AU154308, AA308212, BF059115, W38383, AI139547, AW956354, AA761360, W73695, AA918091, AI751095, BE927188, AI419956, BG031495, AI799464, AW665559,

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HE8FG24	692	733560	1 - 1592	15 - 1606	BF676673, BF001392, AI912229, AI480413, AI991067, BF001451, AI417501, BE674291, BF475271, AI439647, BE669503, AI949395, AW361928, BG149770, AW370592, AA514949, BE042855, AI445724, AA978328, AW438870, AI085569, AI219935, AI185867, AI304328, AI951491, AI285945, AI432932, H03970, AI796283, AA029046, AW510441, AW466890, AW016199, AI700083, AA029045, H03163, AI828471, BE464022, BF919980, BE093260, AI219915, H60125,

					AW192427, AA577429, AW955794, AI074083, AI360473, AW028967, H60126, AI282068, AA480318, AA331716, AA410234, BF755692, AI824778, AI913154, AW366830, AI873811, AI934369, BE088349, AA639719, AI791728, AF311320, AK025993, AJ269529, AP001626, AP001747, AP001625, and AL355683.
HE8FK78	693	852180	1 - 2491	15 - 2505	AI114513, BE219363, AW263235, BF591594, AW341337, D81915, AU159063, BG149593, R45308, BF090397, H16464, AI221836, BF770473, H16264, BF448682, Z45072, F03989, R12297, AA829010, T35541, AI914442, N89290, AA837234, R00834, AW816535, AA243220, R01490, BF358432, AW067948, AI598011, R20485, F01941, F05683, AK023899, AB037725, AK025819, and AF113686.
HE8FL24	694	570157	1 - 1257	15 - 1271	AC015479.
HE8FL68	695	843777	1 - 1734	15 - 1748	AI623365, AF289077, Z69734, AC009707, AC009707, AF127019, AF127019, AF289077, and AF289077.
HE8FR53	696	843807	1 - 3693	15 - 3707	AL038011, AU118419, AI014828, AI114524, AW955815, AV722406, AW162045, AW273995, AW162580, AI760175, AA868346, AW965369, AW160428, AA434522, BF571711, AL038100, BF214459, AI801855, BE245271, AA160952, AI240106, BE245243, AA161480, AA287782, AA738022, AI374646, AI815160, AI422400, AI951976, AI640565, AU144988, AI955355, BF244941, AA670318, AI818799, AA977755, AI951990, AI051260, AI610119, BE894025, AA776673, AW957531, H05199, AI963936, AI223156, AW408691, AI242192, AW135377, AW072571, AA678898, AI828852, AL038010, AA332118, AI015456, AA723261, D81663, N26108, W40325, AI468109, AI979268, BE246434, AA987952, AA427820, H25892, Z43448, AI932610, BF978158, D51087, AI459446, AI352116, N93852, AW965990, AI879372, AA333511, M78407, BE502454, BE246406, AA332713, AA298214, AA331919, T30101, Z39525, R24979, AA586469, AA353597, H88564, AA334574, F05178, D51501, AW014067, AA255858, BE177258, AA355501, H05160, N36745, T80932, AW806179, AI251778, BF570704, D53329, AI028631, AA609126, AA332532, R45239, F01428, BF941999, AW075750, AI954238, BF942131, T07111, BF942147, AA732747, C14209, AI719350, AA825398, AA382030, D59293, D80785, BF092397, D80175, D52693, N66425, T80856, M85663, AA767122, AA363566, D59793, BE774617, BF594583, AA094966, BE171926, H97059, BF891380, C01898, N89160, H25887, AA620960, BF961161, BF947718, BF886210, BF593850, BG231399, BE833263, AK026424, AK026425, AJ251236,

					AF130106, AK001024, J05071, M37183, Z63227, AF098488, U38496, AF022087, and Z63229.
HE8MA27	697	664484	1 - 1293	15 - 1307	BG252095, AW965312, AW977747, AI126305, AA443175, BF195835, AI338421, AA679079, AI913238, AI333023, AA972520, AA838427, AW605328, AI307325, BF222431, AA463484, AI805628, AW630931, AA828370, AW078809, R43305, AI225223, AW006036, AA587907, AA922459, BF923727, AA707365, AA332396, AI928687, R82447, R82448, Z41035, T96841, H81876, F04432, AA362022, AI740575, AI205049, AA937210, C01328, T96842, BF763516, F03673, H81899, H81875, AW081213, AI658899, H81900, AI863622, BF939300, BF923780, BF763515, R47213, BF794285, AC004893, AY007164, AB046845, AC004893, and AC061971.
HE8MG56	698	838064	1 - 2290	15 - 2304	AA332555, and AL356134.
HE8MQ01	699	886800	1 - 2705	15 - 2719	AI866939, AA338997, AA332893, AL079734, AI783911, BF771774, AI114733, AI133552, AI912401, AA515728, AW963444, BE048032, AV738383, BG056174, BF768846, AI620585, BF312862, AI056177, BF928469, AA410788, AA297666, AA535216, BE063437, AI253987, AW798093, BF891210, AA838190, BF805088, AI802804, AI580250, AA579179, AA228778, AU147162, BE968744, AA528546, AA827771, H85792, AA714110, AA659608, AW675551, AV656851, AA634837, AW069227, BG250286, AA582073, BE350261, AI554471, AA651632, AL038936, AL119921, AW962335, AW264986, AA837035, AI625604, AA581247, AA583394, AI223543, AA847031, AI439910, AL043289, AW338179, AW303142, AA452887, AI634187, AA310183, AA129746, AW500684, AI613389, AA527209, AV755512, AI733856, AW327624, AA621381, AI744830, BF059769, AA487726, AA513551, AA515351, AA457249, AA654778, AA213959, F11718, AV701116, AA464739, AC004112, AC005736, AC003662, AC007371, AL109921, AC007999, AC005098, AF116689, AL031683, AC006236, AC006329, AL035406, U19759, AC005011, U73636, AL008627, Z97196, AL162615, AL022315, AL121897, AL391595, AC016025, AC004882, AF243527, J00083, AC008812, AC022436, AL035587, U72787, AL162293, AC005050, AL133260, Z85987, AP000356, AL136173, AP001690, AF039904, AC009087, AP001748, Z83308, AC008736, AP001619, Z97876, Z95703, AL161445, AC005216, AL135798, AC006457, AL033517, AP000295, AC009289, AC011475, AC008745, AC011489, AC004552, AC007787, AF190464, AC005071,

					AC002369, AL121881, AJ295844, AP000044, AP000112, Z70280, AC007269, AC002554, AC002073, AP000336, AL136418, AC004520, AC009145, Z83844, AC008560, AC004585, AL109840, AC006026, AL133387, AP001745, L35676, AL050318, AC005015, AC005921, AC006210, AL117337, AC006057, AC007272, AP000045, AP000113, AC006006, AF129756, AL079333, AC010102, AC007395, AL049715, AC026770, AC008543, AC009060, AL031117, AC005730, AL033521, AL139396, AC002430, AC007845, AC009481, AC004166, AP001610, AL133467, AC002310, AC007308, AC007378, AC005620, AC007216, AC020908, AL121952, AC004867, AC007435, AC006084, AL031177, AC011514, AF284446, AC006536, AL353596, AL024498, AC005005, AC013451, AL137802, AL353653, AC011490, AC002464, AC018764, AP001726, AL049548, AP001746, AC007057, Y14768, Z83838, AL031311, AX037570, Z93848, AL445223, AC023510, AC005548, AC007327, AL050306, AL445248, AC011500, AC004985, AF001550, AL122058, AC007722, AF084941, AC009086, AC011559, Z97989, Z82244, AL035495, AL133465, U91323, AL109743, AF107045, AC002477, AC087225, AC004824, AL354762, AC003007, AC004790, AC018801, AC004104, AC010618, AJ277546, AC005089, AC003695, AL035450, AF312915, AC005080, AL162272, AL137185, AL121920, AL021707, AL049631, AC004884, AC011445, AC006455, AC003043, AL445605, AC005190, AC008760, AC016396, AP001627, AF181449, Z93023, AF051976, AL049795, AC001231, AL034429, AL139120, AL133507, AC011742, AC002091, AC005907, AC074338, AC004796, AC008753, AL355386, Z68321, AL136527, AC004802, AC003076, AC005568, AL096870, AC010462, AC083866, AL034425, AC004634, AC008970, AC003093, AL160231, AP000510, AL136135, AL049758, AJ276674, AC005605, AC004475, AL023876, AL353643, AL050350, AC006552, AB023048, AL133320, AC006009, AC018663, AF168787, AC005632, U82668, AL122001, AC006942, AC002553, Z82201, AC004112, AC004112, and AC004112.
HE8MS43	700	799521	1 - 2586	15 - 2600	BF528310, BF341773, AI909151, AI440495, BF676353, AV726794, AW805592, AI339292, AI962337, AW579494, AV654298, AW964950, AI478823, AI590098, BF061542, BE349951, AW960640, AW805582, AW194095, AI690043, AV726211, AI088025, AA286751, AI692217, AA773071, AW571547, AI969335, AA766278,



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HE8MY77	701	847382	1 - 2707	15 - 2721	<p>BG168997, BE622334, BE269891, AW607804, BG121283, AW014727, BE439491, AW965677, BG120525, BE855558, BE885493, AW803977, AW149735, BG259855, BF593687, AA769051, AW607802, AI435462, AW367338, AA722873, BF126126, AW026519, BE177330, BF962998, BF029890, BE960999, BE223114, N56914, BG054825,</p>

					<p>AI094344, AW005344, AW182550, BF678722, AI138570, W72713, AI652304, BF057283, AI342343, AI469930, AW841290, AI031823, BE467403, BF306124, AW024156, AA978323, AA159826, BE547026, AA937514, BE549763, W72189, AI279792, AW960848, AI333233, BF116167, AI382174, AI936929, BE295907, AI752932, BF918154, AA026395, AI658539, AW150776, BF963434, AA688171, N24300, BG110975, AW130249, AI609695, AI088279, AI088278, W47026, AW385291, H98730, AI391621, AA574261, BE881040, AI609705, N31504, BE622796, W77886, AA620962, AW997536, AW959492, AA042991, BF057395, AA666092, BE537555, AI144509, BE166564, AI547323, AA010580, AA161100, AI758829, AW367320, AA169200, AA165001, BE868752, AI696950, AI434016, N30110, AA010579, AA158817, AA722402, AA948571, AA826268, AA961210, AW892885, W30965, AW393520, AW385133, AA128570, AA594586, W32391, H97519, AA057162, BF849904, AI080609, BF881477, T87223, N98754, W76171, BE927648, BE673981, AI580962, W73868, AA151335, AI955429, AA027187, W02126, AA151334, BG055256, AI201632, AA988079, AI421646, AA988086, AI569564, AA025520, AA351575, AA363614, D60779, W58754, H70159, AI907628, AA732964, AW607739, AW801867, AA056953, AI913801, AW965346, AA016119, H19625, N33058, W72503, N64626, H19624, AI016185, AI857256, AA044275, BF028883, AI698864, AW589495, AA363613, AA609035, BF677572, AI368963, W90158, AI358032, AI421900, H10184, AA860653, AW085107, AA169657, BF374932, AW607797, H85228, BE834166, W47217, AA278319, AA662152, N29494, N79955, H70158, AA991655, AA740540, AA351576, BF839232, AI365622, AA333136, AA044681, AA321823, AW516832, AA894851, AA983979, T16080, AA974808, AA278990, R77076, H85736, H88289, R21617, AI547322, T74064, BE004232, C18419, R65844, AA844454, AI720735, AA322609, W76060, AW970096, L48845, AI799406, H54080, BF356423, BF848265, W77825, BF244778, AI127001, F12442, AW080726, W21250, AW607923, AA662196, F10064, AA333302, BF356390, AI420143, BE002505, R28263, R65949, BE814735, R28041, AA815108, BF954958, H88288, N48889, N40904, H10185, W16959, BF376941, BF367345, N42287, AI383643, AI203823, AI202690, BF356448, AA044250, N93514, H85453, AW891595, AK024863, U15138, AC018557, and AC018557.</p>
HE8NC81	702	862015	1 - 2612	15 - 2626	<p>BE741325, AI684143, AA404225, AW615203, AA075632, AA171844,</p>

					AI683712, AW470108, BF680206, AA075579, AI859795, AA291512, BE819515, AI686571, AI799522, AI638559, AI828762, AA411046, AA434329, BE083024, AI539668, AI858190, AA404609, AW073686, AA706376, AA554431, H51315, AA172293, AI698956, AA503020, AW150534, AA333549, AI539195, AI870700, H51911, AI682137, AW172459, AA953518, AI370413, AK026071, AL080312, AC078894, AC025781, AC026815, AC027034, AC027035, AC034258, AC066689, AC068924, AC069474, AC073555, AC078893, AC024261, AC068667, AC073166, AC074226, AC027036, AC026757, AC027037, AC077693, AC074196, and AC078898.
HE8NO09	703	793771	1 - 1020	15 - 1034	BE738711, AW958459, AA146962, BF109529, AW993793, AL040662, AA581694, R80684, N52861, AI536862, AA036772, AA243885, AI972439, AA036816, BF222147, AI361084, AA992387, AI567361, AA687882, AA665738, AI971068, AA625716, N50061, R77440, AI623214, R77531, H14341, AW023566, AI359428, R27901, H43289, AA602979, BE897863, BF126133, AW890135, AA355082, AI419636, R24528, R27809, C14360, AA146963, AI217785, C14361, BE349890, R23739, AI869386, AA070592, BE086666, BF698816, N54716, BE738144, D29046, BE086717, BE086650, AB029001, AL356097, AL356097, AC027113, AC027113, AC025349, and AC025349.
HE8QU21	704	838391	1 - 1575	15 - 1589	BF893263, BF893276, AI032590, BF893278, AW503569, AA643684, AI915048, F35070, AI005029, R49658, AA588582, AW964016, BG231506, AA642995, T16689, BF908962, R84390, AW802530, AI568523, BF909384, AA350035, AI609923, AI057188, AI082641, BE163563, AI374775, AI918922, AW103339, N79478, AA877424, AA406055, AI362189, AI866772, AI114816, BF942097, AW242032, BE728002, AI141850, AA020840, AU119384, AW016892, AI951969, AA069777, T89264, BF893279, AW575793, AW248583, AW794915, AI367791, AA971103, BG059960, AI619681, AA351591, AI298040, N46723, BF893425, BE856505, T65002, AA228711, AA845605, AU141987, AI041271, N20124, AI039161, BG009864, BG248371, BG009859, AL035989, BE143368, H20776, AA643967, AV720147, BF957122, BG009857, AA403088, AI902932, BE146748, BF681552, BF824914, BF942210, BF962913, BF998133, W58074, BF813674, BF947884, W27847, BG005336, AI797297, BG009858, W28805, AA669401, AA902250, T91905, BG007214, BE010919, W27025, BG006017, BF942807, AI345783, Z82173, AL078602,

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HE8SH74	705	833053	1 - 3147	15 - 3161	AU118908, AW970603, AA503455, AI745438, AA503437, M85475, AA343065, AW019964, AI860535, AA644090, AU153717, AU146063, AA714011, AI610468, BG109444, BF725844, AW816516, AW161016, AA745470, BF744666, AA744465, AA744449, AA602906, AV756491, AA603413, AV758870, AA828054, AI310464, AA653955, AF236698, AL449689, AW189384, AA579208, AA622801, H91062, AI192440, BG029528, AA829044, AW753399, BE906142, AW966759, AI755057, AW268785, AW189113, AL134330, AA847508, AU159560, AI859946, AU158330, AK021723, AC003109, AC006468, AL022241, AL031602, AK023233, AL133382, AC004893, AC000039, Z93015, AL022320, Z98304, Z99714, AC010201, AL355476, AC004971, AC006345, AL096701, AC002126, AC005409, AF069291, AC010205, AL158830, AC020947, AC010605, L48038, AC005209, M87912, AL161672, Z97876, AP000048, AC000026, AC007386, AP000042, AP000110, AC005519, AL450226, AC009247, AC008403, AL133415, AC005049, AK025436, AL020997, AL137039, AL031777, AC004003, AP001716, AL050321, AL121653, AL133240, AL022326, AJ277546, AP000289, AF010238, AP002085, AC005215, AL109797, AP000692, AC020908, AC005632, AL158167, AC009311, AL049538, AC005412, AB025285, AL353193, AC005391, AC006958, AC008753, AL035086, AC016620, AC002059, AP000555, AL049843, AC002542, AC004685, AC005815, AP000694, AC011497, AL158040, AL121981, L44140, AC007366, AL078638, AC004216, AC007371, AL353807, AC005000, AF217403, AL353140, AC002565, AL023882, AC004223, AC006276, AL359272, AL031274, AC007263, AC011742, AL024507, AC011480, AC005828, AL009181, AB001523, AP001726, AC005520, AC005003, Z95152, AC004963, AC006441, AC005736, AC004865, AC006312, AP001053, AL122010, AL022237, AL021806, AC005207, AL161903, AC009086, AL049694, AL031848, AL023583, AC008379, AJ009615, AC006329, AC004859, AC002350, AC005081, AL031295, AC004895, AC008736, AC005327, AC006077, AP001753, AC007688, AC007404, AC019155, AC004166, Z82243, AC011506, AP000516, AC005911, AC005740, X64467,

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HE8UX34	706	838170	1 - 1395	15 - 1409	BE468263, BE179318, AI383684, BE620044, AA493960, AW206056, AA496980, AI131260, BF437500, BE467443, AW772077, AI138297, AI192769, AW084658, AW081183, AI041615, AA493982, AI685769, AA437269, AI192632, AA719369, AI913388, BF221501, BF445361, BE220148, BE674469, AI819911, AA931051, AA630356, BF062830, AW002950, AW316601, AA826595, BE620584, AI640230, BG150155, AA442346, AA486833, AW577108, AV711399, BF806005, T82340, R02190, BF894915, T39246, U70071, BF902488, AA487680, T62596, AA490578, AA152276, BF873598, T92703, R07804, AC009509, AL157878, AL049830, AC000004, AC002086, AC005251, AK023372, AC034186, AC026161, AC004125, AC005771, AL133396, AF128848, AC006022, AL158201, AC007270, AC005908, AC022209, AC005304, AC023602, AL139379, M85145, AF128846, AF128847, AL031276, AC004858, AF109907, AL031118, AC010423, U82671, AC002087, AL034419, AC005186, AC005621, AC018694, AL138761, AC005888, AL118512, and AC005610.
HE9AE05	707	863257	1 - 1917	15 - 1931	AV685839, BF568821, BE796135, BF690098, BE901362, BF344632, BF970641, BE314381, BE740599, BF311178, BE794551, BF690181, BF569167, BF340224, BE407680, BF026543,

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HE9BJ14	708	805730	1 - 2114	15 - 2128	AI741344, AI762686, AA835524, BF510208, AA489631, AI291993, AI129753, H68735, AA021341, T84610, T91035, BF446287, AW027141, AI989740, AI081246, AA765776, BE829843, AW977322, AI674476, AI277305, AW241928, AA938258, AI218443, AI089374, AI167413, AI290165, AI028030, AI277202, AI298349, AW590181, BF508018, AW408816, AI308270, AA489734, BF842198, AL161979, and AF143871.
HE9CI81	709	734918	1 - 2269	15 - 2283	BF966000, BE905885, BE926759, AW798414, BE173640, BE778779, AA807516, AA908973, AA418448, AW798992, BE644823, BE349155, AA884091, AW673011, AW798491, AI368837, AW363295, AW363289, AI378015, AW957427, N54502, AW363294, AW014681, AW798735, BF439857, BF327021, BF672800, N20027, AA127253, AW798791, R34555, AI039202, H78759, H53849, AA812460, AW197723, AI218375, AW754134, N58789, AI015291, AI570462, AI038291, N76614, AI568999, AI076553, AA860407, BF378605, H78676, H54102, AA757388, AA098884, AA377788, AW363280, Z44067, AW798658, AI244876, N77478, AA621802, AW798553, AA194796, AA099229, F07617, BF378600, BE740669,

					AI042396, AW754126, AA302238, H54310, AA287396, AW798921, BE929938, AL356219, AL356219, and AL354794.
HE9CJ38	710	565082	1 - 2728	15 - 2742	AI167878, AC004388, AC010722, AP001716, AL109804, AC002425, AC005049, AF053356, AC004089, AL109824, AP000111, AC006487, AC005015, AP000043, AC005697, AL096791, AC004893, AC005081, AC006111, AP002898, AC004876, AP001718, Z98743, AC005913, AC006946, AP000050, AC010618, AC011200, and AC004388.
HE9CM11	711	821325	1 - 1280	15 - 1294	AL355481.
HE9CN58	712	562768	1 - 916	15 - 930	AI765644, AW956794, BF197072, AU137455, AV716821, AA568443, BE831172, BE894451, AW966464, AU135339, AA804610, BE971405, AA758082, AI873513, AW515713, AA384399, H88679, H88639, AL135153, AA385199, BG168354, BF750788, AW966458, Z25371, R63456, AL120044, AI655607, AI654632, AW207454, AI743991, AW051943, AC020629, U72209, AC020629, AC020629, AC023513, AC023513, and AC024943.
HE9CV59	713	847061	1 - 1379	15 - 1393	AL519325, BF966927, BE788945, BF980195, BF339692, BG171598, BG115326, BG026521, BE876512, BE893953, BG169368, BE891789, BG178394, AV751805, BE896770, BG121055, BF984772, BE891353, BG035486, BG024762, BF979171, BE896854, AI079871, BE537978, AI141548, BF969158, BE967432, BF245516, AI884994, AI754452, AW300378, AV722711, BE779848, BG030039, AV706988, BE888451, BE504261, AI744514, AV724674, BG035412, AA203251, AL519326, BE766678, BE783063, BG168514, BE910521, AV729483, AI458068, AW242918, BE546429, BF196900, AW779043, AV727905, AI557059, BE081688, AW055218, AV762094, AW593406, W67445, AI802141, AI951522, AW964276, AW602202, AA526064, AW957266, AV694667, BE562307, BE895407, BE870029, BF815064, BE218383, AA609534, AI160333, AI459327, BF817011, AW274411, AW237570, AI283096, BE856881, BE908193, BE392757, AA083482, BF732811, AI222806, AI148933, AI147909, AI090774, AA563763, AW300715, AI568762, BG116928, AI278463, AI879602, AW514410, BF033763, AI032613, AI066533, AI143315, AI753784, BF698223, BE857576, AV751302, AA847652, BF669268, AW340856, BE081677, AW026015, BF212884, BF541738, BF439164, BE890646, BE855684, W56491, AA535049, N36124, AW264821, BF825668, BF382334, AI554135, BE047202, AA130194, AA156535, AA633881, AI218481, AA456761, BE866663, AA156569, AI090230, AI362255, AA563834, AI912414, BF316031, BG163285, AA614829, AA999950, AI278461, AA236246,



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HE9DG54	714	821326	1 - 1899	15 - 1913	AI569790, H50970, AW516510, AC008843, AC005913, AL008712, AL353140, AF196970, AC005412, AL158824, AL157713, AC020750, AC018755, AC069539, Z77249, AP001207, AC004996, AL050335, AC087084, AC006238, AC034186, AL121928, AC007682, AC002544, AL050326, AC022816, Z95115, AC083871, AP001690, AC005517, AL109865, AC015651, AL359272, AL133330, AC009003, AL121578, AC010205, AP000426, AC005988, AC011290, Z98884, AL022328, AC010328, AL157756, Z84484, AL096814, AL033527, AC005537, AC008738, AC011510, AC009945, AL109769, AC005020, AP001712, AL031729, AL117338, AL358777, AC005186, AF228703, AC009314, AC007955, AC005094, AC083870, AC005520, AL031283, AC009299, AC009319, AL049832, AL132775, AC073316, AC008150, AC011460, AC004526, AC007880, AC007537, AC066590, AL121916, AL139087, AL122057, AC027319, AL136000, AP000476, AC007690, AC004033, AC008033, and AC006251.
HE9DH59	715	886059	1 - 2488	15 - 2502	AI743110, AW027945, AV704087,

					AW084526, AA432281, AW516247, AW956325, AI208913, AI339294, AL530804, BE645109, AV699472, BE547885, AV697405, AA861616, AA644048, BG231587, AW300670, AV652444, BE766821, AA431276, AA777632, AW513341, AI219671, AI148405, AI352204, BG055067, AA577616, AA449223, AA449277, AW341177, AA970937, AA401473, AA906194, AA628564, AW835278, AI074683, BF515180, AI076711, AI479370, AI082178, AI079588, AW663631, AA564429, AI797090, AA234114, AI797100, AW572590, AA234031, AA948463, AA314176, AI741306, AI142605, W79168, AW361541, AA234450, AI218509, AA576400, AA878052, BF899634, AA157005, AA233896, AI536998, AI797101, AA983966, W74297, AA502282, AI973267, AV652432, R01184, BE832825, H70032, F36993, AI203491, AW070794, BF916224, AA614115, AW881026, AA654249, BE832838, AI751322, N54575, AA972130, F32137, AA335858, AA361317, AV695399, AA654259, BF847813, F19229, AI934398, BE706405, T50106, AA401601, BE706437, AA632252, AI061164, H30632, AI370724, AA598856, AI270620, AW802592, AA298599, T50158, AI538788, N76656, AW956078, AW375812, BE832806, AA298105, AI446805, AA812578, BF849599, AW841448, AI934408, AA054837, AA994456, AA383015, R47337, AW385357, AI769197, AA861925, AA626213, BE764956, AA828089, AA707230, T25504, BE179149, R47369, BE886870, AA628553, AA513530, AV748411, AA872576, AA837475, AW858522, BE179142, AL134524, AW601637, AL134110, BE837998, AW979125, AL045327, AW577201, AW974909, AW577199, AW979098, AW974387, AW970107, AW979122, AW975688, AR066494, AJ238010, A93923, AJ276253, AJ276255, AJ276256, AR096545, D17247, A93916, A93931, AJ276251, AR064707, AJ276257, AJ276254, A85203, AL133053, AL122101, AL133074, AR023813, AL133049, AL133082, AI468831, and AL353719.
HE9DZ47	716	835820	1 - 1262	15 - 1276	AW970112, AW970109, AA513971, AI745528, D62166, and AC012150.
HE9EC36	717	784960	1 - 1265	15 - 1279	AI094627, AI626038, AI767403, AI201019, N63325, AI421326, AI393128, AA147495, AI223029, N27591, AA155671, Z38149, AL135239, AA558910, BF091911, F01342, AA670092, AI370938, C18926, N20317, Z41852, AA385129, F05088, AL357992, and AB020316.
HE9EM54	718	560627	1 - 1072	15 - 1086	R94248, AA886480, AW963444, N77480, AW505253, AA825827, AV760388,

					AI821268, AF111167, AC004787, AC009948, AC003950, AC008753, AF131216, AC005821, AC008745, AL162424, AL139286, Z99716, AL163210, AP001711, AL121897, AC007216, AP001207, AC002375, Z86090, Z99755, AC005529, AJ010598, U95742, AL158141, AC002091, AL034423, AC002072, AC004386, AC005102, AL121929, AL049636, AC018633, AC008074, AC018639, AL021878, AC020913, AC005840, AF168787, AL157938, AC018690, and AC018690.
HE9FH28	719	633737	1 - 1262	15 - 1276	AA828834, AA284247, AW769654, AA847499, BF725844, AI300054, AA536040, AW341978, AW474168, AI653776, AV695478, AA358161, AA535216, AI623364, BE243506, AW613805, AI421723, R51582, AW236163, AW468347, AI613459, AA283081, AA832145, AA169245, AA746911, AI299192, AI273990, W02749, AA501461, AA470344, W96277, Z84469, AL121899, AJ400877, AC018719, AC022201, AL133500, AL139286, AC012384, AL049709, AL133246, AL050318, AF003627, AC002073, AJ251973, AC004024, AL133551, AL035555, AL391122, AC002091, AC004019, U85195, AL390039, AL034423, AC004921, AC055740, AC009362, AE000658, U52111, AL445669, AC007055, AC004409, AL035400, AL160231, AC009501, AC002357, AC024086, AF224669, AL157938, AC007707, AC007617, AC009358, AC006121, AF205588, AL157789, AL034422, AC004125, AL357752, AC005365, AC007016, AL135749, AC007363, AP001727, AL031230, AC006038, AC000353, AC002416, AC005531, AL358777, AC005592, Z98200, AL159977, AC003029, AC009330, AL078591, AL078638, AL162615, AC004881, AL137191, AC004500, AC005229, AC018637, AL121897, AC024561, AC005015, AC008088, AC009363, AC005014, AC005158, AC009365, AC009542, AC002420, AC004070, AL078593, AC007938, AL357374, AC005017, Z82203, AL110502, AC008474, AC005046, AC005094, AL031280, AL021407, AC003663, AL135783, AL079342, AC022402, AL136000, AL049780, AP000355, AC002549, AC003684, AC007384, AC083866, AC008151, AL049868, AC006948, AL136365, Z94056, AC005035, AC005082, AL109839, AC008599, AC073325, AL031651, AP001730, AC004408, AC005520, AL163209, AL138756, AL049776, AL157931, AC004448, AL034374, AC005920, AL133417, Z84467, AC007436, AC009946, AC004140, U91321, AC007383, AP001712, AC009244, AC005899, Z93015, AC006120, AL031670,

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HE9HE13	720	868829	1 - 2743	15 - 2757	AI268349, AI133545, AV727351, AL042644, AV688028, AI174720, AI064754, AV692560, BE465010, AV753036, AI797089, AV693628, AL035808, AV706943, BF056041, AL039025, AA777328, BF314353, BF446820, BE383106, BF195282, AW148855, AW590055, BF942873, AW161496, AV748482, BE671998, AI337141, AV729489, AI091315, AA701267, BG010030, BF509584, AL035801, AI292216, N66923, H51546, AW291645, BG008531, AV749927, AI342797, R53767, W07248, BG015185, H59650, AA744996, AW590523, AW163035, BE939204, AV684463, BE939217, AV685380, AV723467, AA297678, AV684461, AV688678, AV689832, AV693188, AI494251, N92066, AA297295, R94442, BG014281, H49427, AV690806, AA318543, AA297821, AI689792, AI240743, BE046799, W88477, BE671399, AA297093, R99163, H87083, BG014716, AA699845, AI651945, AA984335, AW902316, R87222, BG014671, BF927790, N76324, AV748261, AA298957, AA587566, AV747610, R09653, AV697445, R97197, AA318859, AV749581, H91969, R91627, AI204935, BF757582, AA297100, H78029, AI248895, BF895065, AA298914, AA297227, R18076, AA368167, H71305, R89121, AA296981, AA969743, AA297065, AV748976, AW263368, R53766, BF928044, AA029246, BF932705, AA327773,

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HE9HE13	721	824328	1 - 1533	15 - 1547	AI268349, AI064754, BE465010, AI797089, AL042644, AA777328, BF446820, BF195282, AW148855, AI091315, AA701267, AI342797, AI494251, AA318543, AI689792, AI240743, R53767, BE671399, AI651945, AA744996, AI248895, AW263368, AI950273, AA968737, AI638278, AI967972, AW004002, T93776, R44788, AA904190, BE930972, AI453538, C21164, BE843848, AA972349, AA587544, AA318859, BF437913, AW196226, T93821, R53766, AF052114, AF090934, AL117190, and AL117190.
HE9HF59	722	664485	1 - 1600	15 - 1614	AA010073, AI636215, AC024167, AC007249, AC002300, AL139100, AC005280, AC009362, AC002126, AC020917, AC005486, AC004834, AL050307, Z97989, AL159168, AL360227, AC007637, AL356791, AL135978, AC005088, Z83822, AC022148, AC005081, AC004813, AC009314, AC006238, AL031289, AC005821, AL031283, AL356801, AC005822, U91321, AP001728, AC009116, AL133355, AC007954, AL050318, AL139353, AL096701, AL121899, AC005952, AL109897, AC006483, AC015651, AC004687, AC008033,

					AC007570, AC004966, AL162430, AC024167, AC024167, AC023484, AC023484, AC016146, and AC016146.
HE9HV71	723	658679	1 - 923	15 - 937	AV724984, BF507383, AW516781, BE673529, AW301702, AA436196, H81182, BG150237, D82410, AI194033, BF831861, AW771971, AA904874, H91282, H53265, AA436320, R71007, AI031552, BF476171, AW024244, R62971, H54405, AI309194, BF762490, H53822, BF184463, AW194617, AA526672, D20868, AA846674, BF242917, BE207721, R20668, W45285, H81694, R66741, BF961763, AK026843, AL023583, AC007460, AC007460, AC007460, AL023583, AL023583, and AL023583.
HE9NB82	724	790925	1 - 1315	15 - 1329	AW966788, BE501253, BF056451, BF059750, BE672150, AW966130, BF978587, AW748491, AI917333, R01779, BF438867, R49669, BF980245, BG054867, AA011389, AW665301, AI022055, Z39423, T30229, H78502, H42920, AW136454, H52219, R93248, AI004594, T48272, AA011426, W00931, W00902, AI692389, AI380756, AA334591, R01778, W90272, H75401, N70016, H62631, AI127035, AA861910, AI498984, R00180, H75956, N70099, BF061746, T84138, T48271, AA833612, W90596, AI401426, N54265, AA634297, R00181, N58710, AA705141, BF914621, AI624908, AI983354, AI197907, AW800344, AW950229, AW954102, Z33559, AW961052, AV706292, AV705869, AV704297, AV702107, AW958153, AV728642, AW962403, AW953980, AV708087, AW958869, AV703589, AV653809, AV705909, AW956059, AW955394, AW958147, AW950995, AW949796, AW956162, AV709025, AW965557, AW951426, AV655638, AW963933, AC004542, U45328, AC004542, AC004542, and AC004542.
HE9NE43	725	853313	1 - 2441	15 - 2455	AA334819, AW893455, BF954954, AI459514, AC011208, and AC011208.
HE9RN58	726	840361	1 - 820	15 - 834	BG261184, AL041852, AW027263, AA857474, AI951449, AI186929, AA677155, AA639733, AI304376, AI811872, AW194143, AI335882, AI342430, AI336554, AI246718, AI805977, AI436141, AI239502, AI769190, AI335864, AW166074, AI240205, AI192152, AI200638, AI092780, AI341624, AL041853, BF350364, H12091, AI275875, T87231, AW381220, AW439470, W85855, AW473842, Z40304, AW194150, T50080, R17072, T50017, AI025799, AA255464, T17478, T15985, AA256862, AA256295, F10146, AA694417, AW381235, AW006806, AA969108, AA883601, AW952226, R45140, AW952477, T30917, N89669, AA575932, T35156, N79088, R41404, F02854, R45022, N89664, F01970, F04079, AV717059,

					AW371385, AL137299, AB040897, AK000686, AC010530, and AC010530.
HE9TA42	727	834972	1 - 3357	15 - 3371	AU140171, AW327930, BG254802, BF526551, BG253956, AL043190, BF347281, BG032600, BE273853, BG121786, BE884283, AW377140, BG251935, AU124088, BE885986, BE537814, BE311786, BE899517, BE895263, AW732383, BE388754, BF306405, BE856554, AI246794, AW851247, AW083169, AA056151, N52913, BF689529, AL036423, BE898018, AA481951, BF690447, BF878745, BE674456, AW402132, BE869970, AI925366, BF920336, BE144138, AL525898, AI921038, BG231796, AA447154, AA482071, N54419, AL039173, BF895066, AA448331, AI674825, BF769893, AA132442, AI923184, BE254841, AW297746, AI889805, AI202791, AW341680, BF769500, AI078868, AA694487, AA150034, AW733141, AW382675, BF939340, AA398432, AA150049, AA019152, BF894508, AI452487, AW851005, AI204652, R76987, W45010, AI309532, C15582, BE144137, AA019071, BF826241, AA019150, AA088509, H96589, AI459937, BF894513, R52504, AI634612, AA766136, AI016490, N49227, W56052, BF894516, AI689272, H85529, AA403055, AW752875, AI066596, AI857833, AA732999, AA463560, BG059845, W94473, BF894521, AI346675, BE929769, BE842862, BE706695, AA011029, H84958, W94364, AA132610, AU123422, BF883835, BF895535, AI937007, BF815728, AI288013, BF808603, N68380, AA325054, AA056117, AI190318, AA019069, AA017244, AA088508, AW362982, BE244516, AL531021, BE168563, AW001191, AA557492, BE049619, BE149522, D20780, BF432509, BF808615, BF094343, AL040700, BE017987, BF806277, T05965, AA419062, BF808605, BE710594, AW087403, AI538318, R52505, BE292860, AI088594, AA017280, AA459829, H12752, R98348, AL040441, BF806259, BF809764, BF940896, AA017109, H12793, BF808621, AW752877, BF809680, AA382791, BF929079, BE770010, BF991017, AA262320, H05272, AI582853, AI581416, H91439, AI961878, BF997174, BF827684, AA058595, F22117, AA375500, AI610875, BF806270, H05326, BE732585, BF811821, AW367724, AI870746, AW450056, AW449995, BF825345, T74846, BE279047, R50277, T74758, BF806288, N50277, AI969480, AA017110, BF827679, AI682741, T07028, AA011151, BF815734, H68391, BF808598, AW627913, BF083685, AA928412, F31338, BF154629, BE898906, BE153183, R50737, AI590394, AI696256, BF918623, W32435, AI950648, D56214, AW172557, AI890230, AI861828, BF808606, R98349, BF813850,

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HEAAC21	728	581048	1 - 1080	15 - 1094	BF507374, AW372197, AI740518, BE676401, AW015704, AA740635, AA724154, AV720165, BE501898, AW173217, AI859090, AW629518, AA706711, BF513802, AI268221, AI554845, AW978653, AI378023, AW857213, W51773, AU155920, AV707833, AA456383, AA651943, AI128013, AI222169, AI469328, BF593162, AI783718, BF510191, AI494534, AI435804, BE042619, AA836007, AA804407, N47593, AA808378, W45408, AA938934, AW953594, R78119, AW995224, W52249, AA136940, N45467, H92361, AI224394, AI221110, H92307, AA775140, AA768149, AA767828, BE714332, AA639182, N58852, AI985748, R78120, W32268, BE243336, AA406155, AI222272, BF155909, AW372387, AA808465, AA429007, AA278653, BF155918, AA352332, W32211, AK001842, AB037791, AC009754, AC009754, AC025917, and AC025917.
HEAAC39	729	637600	1 - 1229	15 - 1243	AW970305, BE856555, BF589322, AW970218, AI817185, AA709141, AA478875, AI808138, W73741, BF438291, AI078268, AW316562, AI141596, AA568446, AI080079, AI744816, AI685566, AA236573, AA603741, C20941, AI139198, AA478618, W73647, AA582362, AI187807, N73406, AI798309, BE766048, and AF086298.
HEAAC48	730	603520	1 - 804	15 - 818	AW979296, AA847418, H16694, Z41669, F04892, F01792, and AL359708.
HEAAD63	731	603321	1 - 833	15 - 847	AL042853, BF337291, AL042753, AI040051, BF204069, AW327624, AI475732, AI053518, AA491814, AI921161, BG109957, BF343455, BF796375, BG029528, AU146929, AV762645, AW970877, BF701278, AI569086, AC011455, AC005049, D83989, AC007934, AC004846, AC005726, AL035404, AF109907, AC006285, AP000350, AL035587, AC007917, AC008543, AL133325, AC005261, AL442167, AC003071, AL163285, AC007057, AC020663, AL109837, AC005037, AC006130, U47924, Z86090, AC007308, AC006512, AL031311, AL049759, AL050332, AL353804, AC006026, AL162272, AC011811, AL031589, AC019046, AP001760, AC005052, AL355305, AL049780, AC009955, AL365505, AC009032, AL109804, AL050335, AC008747, AC007688, AL034379, AC004477, AL031432, AL139109, AL021808, AL121601, AL357497, AC005280, AC011465, AL109965, AF095901, AL139099, AL132639, AL034429, AC011495, AL049576,



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HEAAE19	732	825833	1 - 648	15 - 662	AA482910, AI889933, AW970088, T03213, AW063391, T03215, T86017, AW063524, AI250083, AI924077, AV728425, AV761022, AI268334, AI268336, AA683238, AV760486, BG059450, AA129746, AA101689, T08298, AW975169, BE179557, AV725423, AW102846, AA469400, AW504224, AV757289, BF827410, AI027459, N71746, AI084294, AA503296, AA758366, BF764474, AA953238, AV703388, AV703232, BE151164, AW962335, AA191659, AA236903, AI275071, W92132, AV759663, BF877553, BF910700, AA757775, AA484373, BF764476, BG259042, AI094315, BE156725, AA600869, AA011026, AW072487, AV759437, AA724782, AA527209, H48620, AI821918, AI821881, AL119915, AV733228, AW021597, BF725029, AV715310, AL036909, AV707696, AV755654, BE147416, AV736964, AL042420, BF877564, H26844, AC000378, AL035454, AC004465, AL035697, AC006375, AL035405, AL109925, AL022314, AC006430, Z72001, AC007387,

0950083-091201

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HEAAM54	733	740751	1 - 2240	15 - 2254	AC068555.
HEAAM96	734	562769	1 - 1065	15 - 1079	AW504398, BG111179, AW793941, AL390026, AK027220, AL133543,

HEAAN52	735	862020	1 - 2152	15 - 2166	AL133543, AL390026, and AL390026. N23831, AV719822, AV720211, AW378532, AW962245, AV719628, AV699866, AI588856, AV718908, AV718633, AC007688, AL034549, AC009236, AC007251, Z97054, AC005358, AP001328, AC022163, AP000500, Z93017, AC007450, AC005207, AP001753, AC008569, AC073651, AC004067, AC005736, AC005015, AC009470, AE000658, AC008403, U85195, AC021999, AF111168, AL049761, AC008753, AC005844, AC006994, AC020552, AL031003, AC006348, AC011890, AL049636, Z85986, AP001752, AC005082, AC005899, AC005879, AC005740, AC007240, AC002302, AC018641, AC016027, AC015651, AC013434, AC006011, U80017, AL354864, AL117381, AC004659, AL133245, AL137228, AC005520, AC000353, AP001715, AP001716, AC004089, AC007954, Z95116, AC005972, AC005031, AC006064, AC009134, AL031651, AC022274, AC004797, AL031685, AC006213, AL024498, AP001678, AC005072, AC011484, AP000354, AL138752, AC016830, AC005081, AL135924, AP001688, AC002385, AC009086, Z84469, AC005399, AC004531, Z82214, AC005089, AC022404, AB001523, AP001054, AF134471, AL133387, AL353807, AL122020, AF045555, AC018769, AC010271, AC020754, AL096703, AC005921, AL158040, AL022163, AC006480, AC002542, AL118520, AC011895, AC012064, AC009073, AC005914, AC007298, AL163285, AL035427, AC002551, AC005006, U91322, AC007565, AC004812, AL157818, AL133551, AC048346, AL162414, AC005874, Z98884, AC007993, AL034402, and AL157827.
HEAAU28	736	604909	1 - 618	15 - 632	AW102917, AI246663, AA225024, AA226631, BE140602, BF511859, AI302412, AC013497, AC013497, AC013497, AC016962, AC016962, AC016962, and AC025661.
HEAAW54	737	843633	1 - 1090	15 - 1104	AW628058, AI985985, AC007849, AC007849, and AC007849.
HEAAW94	738	847340	1 - 910	15 - 924	AA578368, AA492135, BE707438, AI880112, AA927112, AW970866, AA368674, AW237957, BE560582, BE560540, BE268041, BE513979, BE398109, AI525375, BE270770, AF191611, AF043045, and AF042166.
HEBAP51	739	631248	1 - 1478	15 - 1492	AA905365, AW183209, AA447403, N48800, T75214, AI150769, AI752351, AW957379, AI366812, AI752444, BF513085, AA447404, AI918806, AA446920, AU150140, AI271369, W56090, AW440022, AI810715, AA350505, F12785, F06979, BE702116, BE702209, BE702102, AA908277, F10393, AA371121, AA404543, F03251, AI382343, AW352020,

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HEBAT05	740	637602	1 - 624	15 - 638	BE388118, BE274806, AA631941, BE387736, AW250779, AV728603, BG164124, AA436930, AA496016, AV704277, BF681447, AA542886, AA454563, W79715, AA640738, AA258235, AI292270, AA635317, F32457, R48332, H45477, AA044406, AI129362, AA056752, AA610446, AA917602, AI694307, F31697, AA037214, AA905034, AA913533, AW328289, AW161498, AW190530, BE876953, AI424442, AW157076, AI421826, AW163044, AI377349, AW156992, AI193858, AI087169, F31667, AI310416, AI682330, AI193077, AA041408, AI568969, AW025506, AI355265, AA196235, AW246920, AW058014, AA041506, W81387, AA769689, AA369311, AA429473, AW450353, AA978265, AA913096, AI149098, AA972224, AA369310, BE646321, AA328519, AA125762, AI929761, BE378893, BF195601, AA127040, AA628812, AI741886, BE395491, H45578, AI826085, AW204399, AW957080, AI338612, AI480213, R48441, AI685684, BG034724, AA610691, BF684646, BF973931, AI468074, AW328288, F36944, F36941, F18177, AI721278, R09319, BE737231, AW405036, F34442, AA310193, AW204665, AW295253, AA456455, F37799, BG119999, AI632672, AA037337, AI341583, AA058430, AK000575, AC004643, AC004643, AC004643, and AC004643.
HEBBF78	741	742915	1 - 930	15 - 944	AL538455, AL525832, AI568505, AV655584, AW953847, N32571, AA187655, AI808089, AA526918, BG252515, AI453591, AI081889, AW440262, AA194889, AA845461, AI378649, BE908848, AA443756, AA527164, AI141761, AW958362, AI021995, BF432172, H94858, W78722, H70834, AI479927, BF957705, AA253197, BE221349, AW901981, BF961378, AI761402, AI214552, AI097320, AW057527, BF941267, AI246758, AW901983, AA782490, AI081102, AA553408, BE702146, AI808623, AA633791, AI262281, AA211153, AI073685, N41911, BF941078, N69676, AI818651, H17757, BF946146, AA703017, N73052, BF957369, W26930, H29041, AI082660, AI077530, T60160, AI362656, AA860768, AA682356, AA973691, AW627673, AA211412, AI080519, W28281, AA854718, BF109023, AI375323, AW582812, AA643354, AI381992, AW518288, AI266094, AA100617, AA968835, AA937130, AI262276, AA223950, BE702079, AA774844, AI400255, AI339608, AA252244, H94913, AA242922, AA211154, BE702257, AI299277, AW366343, R59970,

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HEBBK04	742	801958	1 - 394	15 - 408	AI753857, AI922199, AI089898, AI808366, AI358078, AI888375, AI352183, AA764797, AA736507, AA862968, AI934412, AA897145, AI682782, AW003415, AI816989, AI680640, AI400640, AI912934, AI522082, AI568766, AI206419, AA021631, AA897125, BE245917, AA932639, AI803710, BE468201, AA608537, AA811550, BE222667, BE855867, AW055005, D62857, AA761577, AV707506, AA714935, AI061184, BF939037, AW026479, AI817259, AW068614, AI356903, D61933, AW022197, BE672788, AI807893, AW022841, AW051041, BG035913, AI915191, D61807, D79344, AA327884, AA489683, D62100, AI678663, AW088972, AA347686, H44823, BF966786, AI922555, AA642768, D62842, AA743779, AI678162, AW958100, BF667962, BG259368, H44822, BF571850, AF085880, AC006077, AC006077, and AC006077.
HEBCN80	743	596808	1 - 1673	15 - 1687	BE274917, BE407383, BE727532, BE409009, BE385334, BE277891, and AL109897.
HEBCW57	744	858804	1 - 1252	15 - 1266	BF732579, AV732581, AW021889, AI968400,

					AI825334, I34426, AB010437, AC020799, and AC020804.
HEBDF90	745	835835	1 - 2888	15 - 2902	AI807073, BE380078, AW237271, AA167044, BE673329, BF105943, AI962324, BF514050, AW019979, N66663, BE463595, AV648439, AI872009, BE463544, BE710043, AW960859, AI299822, AI949044, AI458442, AA993605, AW299249, AW450231, AA629256, BF475297, AU154690, BF430929, BE669930, AI743458, AI718033, AI681550, W21109, BE672254, AI005652, AI474503, AW021273, AI092195, BE178731, AA399111, AA447220, AA058311, N63150, BE044061, BF448067, AW085210, AA813052, AA678353, AA778989, AI476148, R74282, BE379650, R81219, R81220, AI523384, N98946, AA249069, AA322135, AW015031, N53357, BE566924, AB040375, AA810643, H02352, AW513301, AW796298, AA805148, AA385683, H02254, M85780, H88945, AA346779, AA380249, R21211, N92903, AI370668, R74193, AA371188, AA058489, AA398057, AA166966, BF759689, BE766524, AW882682, H89178, AW341924, AA044302, R21212, BE173545, AA044128, BE178736, BE882974, BE003909, BE714625, AI078638, BE766525, AA368806, AW975989, BE536604, AI380424, AI392795, AW662518, BE246074, BF091851, AI932434, AW903383, AW897106, BE181963, BG013385, BF811933, AB037764, and AK001738.
HEBDW31	746	795500	1 - 1314	15 - 1328	AW952365, BE676410, AV705485, AW250045, AI880840, AI693219, AI917360, BE222175, BF440010, BE277733, BE349025, AW206719, AL041425, AI811178, BE264145, BE502476, BF528296, AA887003, AA808078, AI921274, AI590135, AI624553, AI571198, AA620909, AA494430, BG232096, AI880832, AI657034, R95069, AI360738, N33268, R94979, AA622153, AI084601, AW246748, AI431644, AI801580, D80897, AW089827, R56242, AA325544, AA043953, AA351661, W94855, W87810, AW341800, R64543, H40030, AI873697, AA043965, AA378316, AI202731, H41095, D59965, AW802514, AA815446, AI978559, BG008488, C17955, H20484, D81384, N44758, AA813421, BE798262, W96002, AI735303, H91837, D80733, H91885, AA704552, AI057047, D81569, AA256147, H30360, AW249439, BE797687, C15555, AW138040, AA635475, D81203, AA682724, D53162, N67484, AI394213, D53593, AL134336, T03520, R46625, AW197595, AA089941, C14649, BG009635, BE826300, R47323, C14977, AW885164, BF315820, BF311684, BE833663, BF814263, BF814266, BF814265, BE311990, BF814241, AA977090, AF055021, AF111169, AC007376, AB028959, AC007376,

09950083 091201

					AC007376, AF111169, AF111169, and AF111169.
HEBFL36	747	604638	1 - 576	15 - 590	AI468022, F10780, R38261, H43089, AV741220, AW975618, AV724520, AA848018, AV744690, AV723247, AW966330, AA044087, AV738340, AW964468, AW973541, AV742732, C14331, AV741221, AV742048, AV718692, AW973445, AV718489, AV699550, D58253, D80134, AW753067, AW753053, AW177440, AV742735, AW752082, AV720791, D80132, AV742001, AV721784, AW960553, AV742022, T03269, AV719876, AV720533, AV720150, C14389, AW179328, AW966053, AW966029, AW966075, AW966065, AW960465, AW973334, AW966531, AW978634, AW966534, AV742667, AA305409, AV701125, AV701335, AW966560, AV701419, AV701166, AV701357, AV742430, AV701149, AV701043, AV701332, AV701017, AV701248, D58283, AW966022, AV701431, AV723097, AW959799, AW966059, AW964766, AW966013, D59859, D80022, AV742671, AW966041, D80166, AW375405, AW973474, D80195, AW975621, AW978648, D80193, D59927, AW975613, D59467, D51423, D59619, AW360811, AW753041, AW978661, D80210, D51799, AW965163, D80391, D80164, D59275, D80240, D80253, AW966030, AV719822, AW966054, AV720203, AW964756, AW966050, AV719188, AW973307, D80043, D59787, D80227, AW966062, AV719324, AV718440, AV718938, AV719783, AV720028, D59502, AW959597, AV718633, AW959628, AW960473, AW965177, AW975605, AW959570, AV719468, AV718800, AW965185, AW965197, AW965196, AW973485, AV718707, AW965184, AW973488, AW965175, AV720211, AV718931, AV720878, AV718844, AV720464, AV719557, AV718770, AV720731, AW973482, AV699447, AW378532, AW958992, AW958993, AV722801, AV723927, AW959136, AW956397, AW959062, AW964477, AW956434, AW964488, AW949641, AW962082, AW366296, AW949656, AW949654, AV699927, AW949642, AW959202, AV741191, AW973470, AW973423, AV741189, AW973465, AV745080, AW352158, AV718530, AV744770, AV742720, D80038, AV701415, AV701154, AV720812, AV741012, AV701422, AV721386, AV743601, AV701123, AW178762, AW973447, AL135744, AX047063, AX033851, A62298, A84916, AJ302649, Y17188, AX047062, AX047064, A62300, AR018138, X82626,

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HEBGC01	748	635224	1 - 738	15 - 752	
HEBGE23	749	836129	1 - 405	15 - 419	AI916699, AI125755, AI569944, AI199740, AW339714, AW629416, AI983107, AW168252, AI709247, AW129523, AA932741, AA609646, BG056312, AI760369, AI936750, AI521565, AI440301, AW055303, AI479624, AA010077, AA632342, AI147442, F22819, W18188, AW081397, BE222356, W60994, AI689599, AI431516, AI885069, BF510349, AW503732, AA889231, AW591734, BF476512, AA878702, R20641, AA400446, AI971324, AA868098, AI797356, AI810231, AI468652, AI492286, AA235851, N95625, AA954572, AW665137, BE856112, R73152, BF003059, AW002465, AA400572, AW472891, AW964023, BF437333, AI202466, H02677, H16169, AI439020, AI435394, AA522469, AI857711, AA377384, AW029380, H13164, BF475393, AI823448, H04518, AA613532, Z25127, AW771867, AI270235, H03230, AW953787, AA601925, AA165368, AL045450, AW241567, H04020, AI917425, AI336145, AA364034, N88039, N66226, AA419377, AI650474, AW237069, W94707, AW316806, C01430, AK025939, AC006486, AB002304, AC004987, AC004842, AL035696, AC005627, AL137028, AF109718, AC010507, AL133216, AC004916, AC006328, AC012005, AF270605, AC006486, AC006486, AC006486, and AC021858.
HEBGE85	750	834478	1 - 935	15 - 949	AL048957, W72237, AW444956, AU150391, AA191673, BF059343, AU147067, AA432253, AI816002, AU160385, AW022750, AW594532, AW450163, AI224969, AI339013, AW157836, AI816166, AI809905, AI652165, AU153157, AA759042, AI671943, BF361266, AA421841, W74222, N62208, AV708433, AW007581, AA634441, AI217708, AW272492, AA843463, AA256929, AA232863, AA889033, AI985000, AA889032, AI073542, AI911023, AA666392, AI985318, AA047719, R52913, AW183885, BE674450, W95152, AA057767, N76506, AW873585, H19248, R61317, AA258256, BF478202, AA255438, AA978281, T23968, W95249, BF837274, W92450, AA625386, R67278, R42024, BF448918, R43307, AI018765, AW613493, AI280229, Z38597, AA262360, AW582754, AI014296, AL080222, AK023172, AK022775, AC009309, AC009309, and AC009309.
HEBGJ94	751	847065	1 - 426	15 - 440	AL533103, AL527989, BE674527, AI391504,



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HEBGM06	752	842527	1 - 1490	15 - 1504	BF026689, BE743621, BE742509, BE735584, BE394361, AI692466, BE378494, BE389073, BF436121, BF977628, BE394194, AW798307, AW248376, AI741146, W58702, AI362837, AI123668, AA446543, AI633792, BE780920, AW193696, N31494, AW204907, AA412563, AI023622, AA758971, H97686, AW261889, BF917037, AA446361, AW269032, N32284, BE390645, N44569, AW247941, R54668, AA179801, AA412420, T17064, R59346, AW170295, AA180543, and AB041660.
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HELAC55	758	610078	1 - 965	15 - 979	BF476913, BF476811, BF476595, AW593885, AW327879, AW834587, AA989137, AI908149, AI053773, AW440273, AV729638, AA146651, AA885499, BG054991, BF986627, BE350371, BF994765, AU141106, BF986613, AW955564, AI252382, BE156121, BE156146, BE156129, AI053711, BE156122, AI380555, AW834306, BE156058, AV731996, AI419419, BG120385, AI423034, BE156066, AW819713, BG003487, AA219096, BE145535, AV737541, BF105958, T57683, AW834501, AV750368, AW383950, AW383964, BE138416, AW833073, AV718692, AA039324, AW834495, AI250275, AA558846, BF986610, BE067987, BE067986, BE150062, AW834453, BE068409, AI371559, BE068615, AW834665, AA833993, BE068412, BF994752, H80554, AC005017, AC007297, AC003684, AC007455, AC011290, AL121908, AF289665, AF139987, AL161618, AC007688, AC007563, AL121949, AC002072, AC000113, AL034548, AC003079, Z82200, AL121754,



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HELAT58	759	732199	1 - 2091	15 - 2105	<p>AC005899, AP001716, AC002527, AL034423, AL121929, AC009756, AC006126, AL049636, AL031985, Z93017, AC004983, AC006480, AC005231, AF131216,</p>

095003 09101

HELAW94	760	834796	1 - 1477	15 - 1491	AC026123, AC026124, and AC026124. BF688607, BF688996, AV728771, AW069137, AW377997, BE272266, AW328027, AV723126, BE696110, BE696116, BE696104, BE696106, BE696139, AW378000, AI003772, AW304257, BE696122, BE733431, AI624133, BE384288, AV723119, W45510, BE696115, AW149036, AW377900, BE696105, AW956191, BF924842, AW377988, AW328026, BE169714, AA375087, AW377984, BE315408, AW854673, BE696117, AW604487, BE545469, BF964659, BE696137, BE696127, BE696131, AI380617, H86725, AI904840, BF991881, BF991882, AW972919, BF813163, D84488, X96663, AC011465, AL133245, Y10196, U85195, AP001718, AE000658, AL121585, AC022150, AL137072, AL133355, AC009228, AL356244, AL121753, AL035704, AC002544, AC004408, AF168787, AP001728, AC006163, AC020913, AF165926, AC005565, U91326, AC004590, AC005225, AL109743, AC011470, AC005261, AL117381, AL031597, AC027319, Z82190, AC004560, AC005057, AL118503, AL162724, AC002314, AC010422, Z94801, AC007199, AC008745, AC004659, AL031845, U91321, Z97054, AC003678, AL121675, AF111169, AL024498, AC004491, AC000134, AL031594, AL050308, AP000510, AC007216, AF134726, AC005920, AL133548, L48038, AF196969, AC012384, AL159997, AC007597, AL121601, AC006509, AC008720, AC002456, AC020754, AL096700, AL355385, AC008264, AC008474, AC006449, AC000003, AL035400, AC006511, AC009756, AC011450, AL135783, AC011479, Z85986, AL132773, AC004686, AC002492, AL136418, AC011480, AC004771, AJ246003, AC006115, AP000010, AC007404, AL022322, AC004990, U07562, AC020906, AL049712, AC005696, AC005089, AC007536, AF156673, AC004000, AC020916, AL031255, AC005722, AC004089, AL354720, AL160175, AL049553, AC004241, AL109825, AC000026, AC007383, AC010328, AL121658, AC003963, AC022027, AL391122, AL355392, AC004181, AC004932, AC006251, AC021999, AF217403, AL136223, AC009087, AC025577, AC004466, AL033397, AL137853, AC002059, AF121781, Z95331, AL391839, AC005015, AC003042, Z98036, AC005098, AC010609, AL118520, Z93023, AL158040, AC005529, Z93244, Z84469, AC008556, AL163279, AP001759, AC021016, AC004253, AL133453, AC023490, AC002365, AC068799, AL133545, Z97630, AL138816,
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09950083-091201

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HELDF80	761	799522	1 - 1446	15 - 1460	AL536112, AI189605, AU118565, AU120711, AL528132, AU119175, AU142491, AU117918, BG109932, AU139459, BE734046, AU117135, AI423180, BE741967, BG028491, AU123547, BE299847, BG119520, AL516596, AU123523, BF690724, BG027506, AU135100, BG026421, AU143112, AL042033, BG178853, BE783653, BF672132, BG171454, BE748260, BG165791, BE615767, AV706108, BG120172, AV711157, AU127655, BF575512, BE868402, AW410096, BG111084, BE268124, BF695368, BE267850, BF699975, BF969612, BG026918, BF691404, BF574265, AU135174, BF031986, BF694511, BF248352, BG257454, BG251818, BF792411, BE870011, BF694792, AA418062, AA429708, BE268739, BE538440, BE889512, BF676417, AV654317, AU120235, AA034186, BE886193, BF726562, BF694317, BF670769, BF672446, AI219200, BF692956, AV703600, BF572764, BE742947, BF667074, BE393078, BF694480, BF671311, BF697742, BF791246, AV707431, BF670356, BF216396, BF694505, BG178847, BG026281, BF664603, BG254007, BF575260, BE564241, AW993725, BF977312, BF216878, BF669685, AW993857, BE739095, BF575693, AU126926, BF217822, BF575716, BF211751, BF698483, BF687692, BF212930, BE778540, BF217462, BF030054, BG258548, BF665196, AV745632, BF382227, AV745372, AA411397, BF209365, BF240460, BE568493, BE960907, BF214839, BF132302, BF030853, AW410097, BF102738, BF700530, BE748331, AI018741, AA431977, AV745916, BF979073, AV745252, BF208508, BE298346, BE960998, AI193279, AA682817, AA220934, AA034187, BF700939, AU153235, AI754465, AW024266, BF217277, AI126251, BF690929, BF695789, BE962023, AU154157, BG028802, AA166874, AU151385, BG180646, AL049075, AU152196, AV745804, AA702274, AU149682, BF216979, BF577358, BF132953, BE856921, BF242276, AU154156, BE896457, BF976872, BF208998, AI186197, BF130776, BG255975, BE298649, AA704581, AV745936, BE858061, BF306435, BF242073, BE296585, BF247084, BG032726, AW370193, BF976865, BE386044, BE299149, AU151626, AI263352, BF934072, AL134572, AA846282, AA577038, AU153700, AA700585, BF245200, AU148994, BF575008, BF934120, AA417958, BF205177, BF960671, BE868510, AI817019, BE565285, AI049595, BE961133, AU153949,

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HELDH39	762	780536	1 - 2639	15 - 2653	BE878991, BF594386, AW131875, BE219901, BF438203, AW956363, AI271457, BF445837, AI279322, AI123316, BF998809, W63705, BE504236, AW419360, BF998804, N41041, AW662316, BE466780, AI656298, AA436517, AI278161, AI990342, BF477906, AI025059, BF988687, AA402554, W60125, N40421, AA425889, H24187, BE206264, BE504316, AA436467, N26057, R44595, T09183, BF998811, AI697150, AI401378, AI225073, AI658735, AA815068, AV685482, R51627, AA339230, BE221704, BF447897, AW204942, AW770785, AI478612, AA456482, AW103017, H83563, H59463, R36572, AI424542, R24933, AA939161, AW589365, BF576100, T24107, AI350551, AA374998, F11097, H61455, AA377687, D61973, H24077, AL523339, BE749133, D79890, F05240, R58877, R45197, Z42410, Z38257, AI565365, AA626190, W56825, BE749132, BE887940, AA478257, N36183, BE696045, AI609324, N32701, BE794712, N44170, BE173750, AF131763, and AK023923.
HELDK79	763	532597	1 - 882	15 - 896	AU118627, AI051622, BG035128, BE906377, BE747176, BE745111, BE904639, AU133917, AU133984, BE788794, BE907348, AI189753, BE879041, AI685095, BE619041, AI828930, BE790436, BE910282, BG119322, BE884393, BE879963, BE620997, AI819390, BE621186, BE906666, BE785244, BE613669, BG167065, BF036140, AU135866, AI804422, BE908365, BE881236, BG122252, BE737005, AI633575, BE908977, BE547180, BE548372, BF105867, BE874626, BE906618, BE974032, BE789335, BE548097, AI250777, BE543834, BE546656, BF126211, BE785027, AW338147, AW080238, BE897209, BE392486, AW510672, BE904461, BG113740, BE877056, BG165112, BF184281, BF791201, AA083510, BE617437, AW513200, AW651691, BF132064, AU137549, AW629109, BF184069, BF382972, BF691383, BF182976, BF247995, BG169978, BF106087,

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HELDQ42	764	695716	1 - 2056	15 - 2070	AL533192, AL533506, AL538378, AL527689, AL525378, AL042989, BE795321, BE798178, BF792096, BF026358, BE379690, BE563825, BF568604, BE274345, BE616535, BG030860, BE378933, BE735671, BE563470, BF305763, BF528450, BE740682, BE737229, BE616529, BE257715, BE379355, BF304132, BF037510, BE883423, BE277807, BG035660, BF056647, BE252204, BF204526, AI279802, BE393156, BE407164, BF317456, BE616738, BF525993, BE389335, BE380126, BE892080, BF875547, AA311080, BE394217, AI920860,

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HELEE85	765	835457	1 - 555	15 - 569	<p>AA706624, AI807241, AI377188, AI819191, AI554339, AI332513, AA056557, AW593002, AI675223, AU152926, AI159776, AA897088, AW079154, AI868024, N22259, N81155,</p>

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HELEL76	766	862490	1 - 1109	15 - 1123	AL536616, BE729579, BE794111, BE563527, BE791351, BE729207, BF308533, BF308139, BG260007, BE742063, BF309055, BE747790, AV729502, BF306071, BE743305, BF205655, AI133668, BE294600, BF203525, BE740708, BF038583, BE256438, AW409892, BE743066, BF306393, BE785035, BE266057, BE390368, BE742158, BF306310, BE693697, BF034233, BE254728, BE893978, BE299124, BF205849, BE298425, BE736555, BE270375, BE208464, BE294327, BE876474, BE784083, BE299494, AW151537, AW360815, BE295211, BE019338, AW410714, BE270413, BF953081, BE294412, BF305279, BF132280, BE295388, AW962959, BE740473, BF968561, BF674224, W31320, D53079, T27259, BE185212, AA305292, AA187731, AA182962, W81268, AA634772, AA333590, BE299695, D54886, AA460998, AA357487, AA155784, AI908066, AA157646, AA226027, BE299730, AW409893, T34417, AW905639, BE740827, AI003365, AW375316, AA773890, AA452998, BE788445, AA670456, T71690, BE938239, M62127, BF307270, BE736849, AA181070, N55882, N50367, AI471827, BE207952, AA363508, AW149070, AI285453, BE719767, AA508485, AW177580, AW410715, W01940, AA187277, BF830758, AA223710, AA991792, BE141788, BF090319, AW845911, AA229354, AA229034, AA229080, BE875912, AW369174, AI246884, AA653041, AW937453, BF541640, and AF086462.
HELEL76	767	839470	1 - 1241	15 - 1255	AL536616, BE794111, BE563527, BE299494, BG260007, BF968561, BF308533, BE791351, BE742063, BE784083, BE747790, BF309055, BF308139, BE876474, BF306071, BE729579, BF205655, AI133668, AW151537, BE740708, BF203525, BF038583, BF306393, BE743066, AW409892, BF205849, BF306310, BE742158, BF034233, BE729207, BE256438, AW962959, BE743305, BE390368, BE266057, BE693697, BE736555, BE299124, BE254728, BE298425, AV729502, BE208464, AW409893, BE294600, BE270375, BE299695, AA155784, BE294327, BE740827, BE295211, AW410714, BE019338, BE788445, BF305279, AA670456, BE893978, W81268, BE270413, AW360815, BE785035, BF953081, BE295388, BE299730, BE294412, AI471827, AW410715, BE207952, BF132280, AA181070, AA991792, BF674224, AA508485, AI285453, BE740473, AA452998, AA187277, D53079, T27259, AA226027, AA305292, AA773890, AA229080, W31320,

0950083 091201

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HELEO45	768	847067	1 - 1951	15 - 1965	AW103462, BG030824, AV716187, AL037661, AW997041, BE783263, AI620383, AI862382, BF766883, BG163675, AA293258, AA236833, AI798349, BF766809, BG107123, AA192304, AA325670, AL037660, AI925345, BE166243, AA320749, AB046824, AK026978, AK025635, and D17104.
HELFA57	769	845981	1 - 1887	15 - 1901	AW963990, BF032788, BG120900, AI679201, AI701053, AI989408, AI569591, BG165498, AW749482, BF897343, AW152110, BE162736, BF372556, AA078196, AA376917, AI160284, AI207424, AA483606, AV743462, AI733856, BF725884, AA570740, AA568204, AL120282, AW328000, BF845126, H73550, AV759632, AW069227, BF991881, BG222875, AI634187, AA602906, BF528591, AW897556, AV762633, AV695478, BF947281, AI917132, BF991882, AI755214, AI754105, AW576251, AI754567, AW500684, AI499954, T47138, BF854308, AV733437, AW328202, AI272649, BF813805, AW237905, AI133083, AI270370, AA503298, AL037632, AA832145, AW270385, BF845125, AI457313, AW272815, AV762430, AI354333, AI049630, AI431513, BF857849, AI538491, AI635440, AA719073, AW976024, AA604831, AL524675, AA581170, AW265688, AI732789, AI859438, AI268019, BE250197, AK025076, AC004166, AC004883, AC005098, Z84469, AC007878, AC018766, AC011742, AF002223, AC005158, AC008738, Z98742, AC018738, AC008745, AC008521, AL353602, AC006211, AC007773, AC011491, AC010083, AC008753, AC006511, AJ009611, AC004492, AL137139, AC004253, AC009721, AL135744, AL135927, AC007227, AC008551, AL096870, AC004491, AP000211, AC002476, Z82203, AP000133, AC004148, AL096701, Z85986, AL121601, AC005391, AC003109, AL109797, I34294, AC007221, AL031602, AB030001, AL117652, AL391840, AL022316, AL138976, AC020913, AL049636, AF141309,

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HELFO30	770	828202	1 - 2340	15 - 2354	BE739782, BG260361, BG032261, BG170768, AW195335, BE620067, AA846729, BF571882, BG167529, W55956, BE501532, AA706724, AI806599, AA724378, AI609525, AW466980, AI028108, AA843409,

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HELGF28	771	740782	1 - 2284	15 - 2298	BE868682, BG170138, BE779689, BG253605, AW953820, BF734556, AW957109, AW135363, W68720, AA939105, AW966228, BE244341, N34984, AI657159, AA680335, AI628176, AI628198, W68742, AW450825, AW043560, AI937544, BE782301, AI494435, AA598681, R93309, BE502788, AI356109, N49292, AA037585, BF058334, AA037584, AA250872, AA918825, AI457226, R66027, AW293104, AA129982, BE350542, AI934693, T87842, AA165237, AA192622, R66028, AA133862, W27759, AA737332, BG028769, H05598, BF511605, T71997, AW244029, BG150423, BE813916, AI918298, AA809638, N27043, C00311, AA133863, AA853281, Z43082, N43745, AA369886, F15768, Z39174, AW291453, AW384738, AW384707, H25089, AW384736, H12959, AW363791, AW372835, N49534, BE068865, AW363790, AA337479, AW386709, BE068860, AW885044, AW372829, BE068862, BF361392, AW749313, AW372834, BF853449, AW363788, BF932578, AV727822, AA205100, AL042454, AW363789, AI248294, AA976829, AI964020, AI337095, AA149266, AA493212, AA789147, AI436353, AA151348, AA552156, BF222865, BG230639, AA478388, AA716419, AA649028, AA714851, AI334649, AI634416, AI307244, AA470731, AI769170, AI561328, W74375, AA644335, BF110001, AA826497, AB018343, AL080145, and AF086402.
HELGP60	772	580822	1 - 1282	15 - 1296	AW629331, BF881884, T24537, AA361596, AW873467, AW675354, AA625537, AU134730, BF974173, H97058, AW160600, AW160513, AI929040, AW204946,

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HELHN47	773	872795	1 - 3133	15 - 3147	BE379402, AU118098, BF689042, BE799794, BE253724, BE409190, AI088175, BF812523, BG117869, BE797466, AL121027, BF951409, AW603421, AW965854, AW961455, W68823, AI741023, BG117194, BE275247, AW499919, BG168103, AI479047, AI634699, BF951683, AA045233, AI688304, AI951999, AA449896, AI200519, AI149245, BF105190, BE867657, AU144749, W37763, AW007655, AA405988, BE709250, BF940902, AI693102, BE275822, AW962196, AV715822, AV734573, BE883406, BG260104, BE396292, AW956721, BE019501, BF896776, AA449840, BF338580, AA310127, BF850663, AI367880, BE764736, BE764707, W68731, BF846633, BE764722, W96561, BF366147, BE712960, BF345290, AW022906, BE764718, BE764720, BE794853, AI174856, AA525005, W85865, AW578460, BF327328, BF933873, BG004732, AA405737, BF945017, AA430006, BF366129, AW179234, AW891380, AA287748, AA758643, BE764709, AI220400, BE764715, AI963637, AA262900, BE208044, AA641766, AV735241, AW006786, H16917, AA662363, BE065338, BE065132, W96460, W37841, BE709245, BF903403, AW608262, AW302028, BE764719, BE709256, W27830, AA984547, AA287560, AA620313, AV750037, BE177372, BE065342, BF371244, BE379619, BE301121, BF361193, BE816328, BE177393, BE712917, AW960829, T32423, BE764744, AA470120, AA448600, BF980267, BF894424, BF447355, BE712999, AW771818, BF363891, AI127540, AI370962, N95591, BE764746, BE713007, BG152900, AW891388, AA551743, AI149254, AW997838, AI673246, W21912, R99927, BE764749, AI457793, W85949, R98229, BF439758, AW517893, AW369688, AA291526, AA317660, R97994, AW263448, AV729207, BE764745, AA341366, AW368146, AA550747, BF438251, T16770, AW964093, BF376553, AA442716, AW365684, BE764755, BF928672, AA361829, BE089925, BF958474, BF569973, AW069695, AA298005, AW079328, AW205237, AW055101, BE764723, BE177360, AA641808, AV646193, AW503617, N86274, AV652158, N84944, BF347741, R53518, AA358299, AA911712, AI963589, AI015168, BE207352, BF433230, AW581516, BE825316, AI459955, BF525420, BE764710, BF115100, AV746773, AA262269, AW023421, BE712882, AW276205,

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HELHP11	774	638064	1 - 1418	15 - 1432	AI811180, AI431326, BF681389, BF756842, AW876878, BE160753, AA831801, BF747666, BE077105, AI475294, AA862029, AU140753, AA832016, AW190277, F04838, AV699555, AA368329, AI520925, AI271762, F34605, BF951404, AU156820, AW961582, BE465696, AI871691, H59856, AA084320, AL118573, AW129188, R31264, R66407, AA218684, AA015948, BF037662, AI902426, AI805699, H05066, AA653291, AA171400, H24331, AA744095, AW338376, AW468128, AI890297, BF857725, AA728911, H23238, AW770050, AI799421, AA666066, T41134, AI130709, BE673152, AI536858, AI537995, AW778780, BE379437, AW937712, AW731811, AA633565, AW148775, BF815843, AI814682, AI291439, BE645220, AW471284, AI358557, AW971855, AW799144, AA429942, AI032411, R31260, AW673871, AA492524, AW959865, BF667838, BE883754, AW812736, AW850317, AW799150, AA493628, AI654520, N22837, AW469304, BF945325, AA297496, AW972521, AW799331, BE621946, BF672721, BE878646, AW342143, X84712, BG169787, AW272640, BF988799, AA744423, AA329535, BF588859, AV762430, AI131261, AI904944, BE885208, AU125854, AA226770, AU124706, AU147236, AV716506, AV731615, AI150934, R39627, AA579044, BG054770, BF870762, AI820992, AI890753, Z83844, X64467, AC005924, AC002381, AC007963, AL445669, Z97876, U02057, AC006101, AF252279, AC004526, AL138960, AC004217, AC004449, AL021394, AC005895, AL050348, AC005409, AC006164, AP001741, AP001610, AD000092, AC020934, AC005261, AL096761, AL022322, AC007057, AC010083, AP000500, AL121880, U91325, AL360175, AC005412, AC020913, AL031597, D86995, AL356863, AP000555, AC009134, AF165926, AC007327, AP000355, AC011506, AC003971, AL023799,

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HELHP11	775	851116	1 - 1469	15 - 1483	AI811180, AI431326, BF681389, BE160753, AV709139, AV704467, AW963652, AW962388, BE077105, AV741309, AW961606, BF756842, AV697659, AI271762, AU140753, AA329535, AI141964, AA831801, AW023376, AA653291, AV699555, AW963811, AW190277, AA226770, AA832016, AI520925, AI475294, AW961582, AA368329, AA714073, AI189682, AA484892, AA862029, BF244465, AI732720, AI206841, AA837771, AW876878, AU156820, BF747666, AV762430, AW968167, AI358557, AI130709, AI536858, AI537995, AW778780,

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HEMBV40	777	847069	1 - 1199	15 - 1213	AW137076, AV701197, AW562324, AW967292, AW327565, BE748274, AW327499, BF672996, BF677035, AW008598, AA843420, BE785812, AI031562, AI167776, W49538, AI141121, AI096878, AI167918, AI056375, AI024475, AI126963, AA845535, AV682322, AI274882, AI167765, W67238, AI401200, AI148568, AI096838, AI304666, AI149628, AA459854, W56346, AA725575, AV717069, AI832703, BF674345, AI274355, AI291729, W80622, BF215186, AA883278, AI735046, W77969,



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HEMCL55	779	581049	1 - 1342	15 - 1356	AI369563, AC008452, AC021432, and AC020900.
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HEMGK71	782	847374	1 - 1679	15 - 1693	AA494175, AL041375, AW974363, AI278440, AI277373, AW328446, AI521525, AA760655, BE300991, AW020150, AW855527, BE178609, AI310670, BE273825, AI049643, AW674023, AA857673, BF525663, AW979239, AI889995, AV732057, AI753904, BE677029, BF876674, AA573067, AW389929, AA584765, AA610381, AU144608, AA555232, AW192419, AI061313, AI568376, AI310787, AU160445, AI417464, AU149405, AA449997, AI922224, AI926102, AI349130, BE501670, AI439816, AW104161, AV761486, AA577706, AU159614, AI792092, AI821056, AI821805, AI984168, AI452836, BE856399, AV760579, AW177869, AI355246, AW238712, AA526542, AA515727, AW089625, BE062545, AI279417, AI280535, AI745116, AL035977, BE349249, AI922231, AI791659, AI921706, AU120416, AW970588, AI879968, BF725844, AW117860, AA490602, AA809125, AV722143, N68677, AW502796, AI797998, AV730440, BE328286, AW572721, AW341955, AI626035, AU117145, AI733856, BE140949, AI801563, AW265006, AW328185, AW166996, AA847499, AA719564, AW890425, AI435639, AV760508, AA298365, AW264548, AA669238, AI380617, AI915081, AI049845, AA838091, AA663472, AV758849, AW880986, BE677244, BF529925, AW337282, AI927275, AI805107, AV751848, AI744905, BE159517, AL079809, AW023111, AA689351, AI815583, AI816537, AW020198, AI318548, AW026305, AW469462, AI421950, AI361090, AI419337, AA599712, AW847344, AI755214, AW969743, BE676988, AI815425, AW151247, AW514065, AA644090, AA584241, AC004056, AC005899, AC010470, AC005200, AC004895, AL109627, AC005006, AC008733, AL031123, AC013434, AC004797, AC005839, AL022331, AC008277, AC008395, AP001728, Z86090, AC006162, AL023693, AL139100, AL022721, AL121753, AC009194, AP000558, AL096840, AL133545, AC002126, AL049759, U78027, AL109797, AP000552, AC009362, Z97985, AL109963, AC007537, AL162390, AP001717, AL390738, AC004655, AL445687, AC006345, AC007226, AC008649, AJ295844, AC021036, AL136170, AP001720, AC005231, AC020552, AL136296, U82828, AL033529,

					AC008812, AC011811, AC009155, AC005907, AC009238, AC003950, AC007021, AC007666, AF168787, AL353804, AC018751, AC009516, AC005103, AL365505, AL354685, AC000052, AC008736, AC009086, AC008392, AC002401, AL035422, AL031662, AC011495, AC073316, AC004019, AC009314, AC007400, AF047825, AL023575, AL031311, Z93023, AL137139, AL023694, AC006023, AL109825, AL158172, AP000692, AC004804, AC006449, AL078639, Z83838, AC007221, AL356020, AC008753, U91321, Z48051, AC025430, AL136980, AL031904, AC003688, AC005015, AC005057, AL034380, AC003690, AL158040, AC009000, AF190464, AP000036, AC005859, AC009756, AL031772, AC020898, AL121989, AL133294, AL133243, AL121891, AC005725, AC003035, AL109925, AP000512, AL121890, AJ229041, AC006064, AC007687, AC005895, AL117258, AC020916, AL035398, AL121920, AC000120, AL032821, AC005342, AL035443, AD000092, AC005220, AL050335, U52112, AC008543, AL353602, AL136228, AL034555, AC006059, AL136234, AC005484, AL122001, AC016830, AC006080, AP000116, AL031255, L35532, AL121751, AC016601, AL118520, AC006011, AP000049, Z83732, AC005037, AP001725, AP001724, AC005535, AL080243, AC010271, AL354696, AL050306, AC020906, AC005921, AF001549, AC007637, AC005067, AC005274, AL050307, AL008635, AL133448, AL035089, AL022316, AL137017, AP000031, AC006965, AC005206, AC006038, AF205588, AP000311, AL022336, AC008085, AL050328, AC004972, AC004966, AC006057, U47924, AL161670, AC008969, AC004491, AP000510, AL445248, AC007899, AC006141, AL121588, AC005778, AC018663, AC011527, AL121748, AC005399, AC007308, AC003119, AC005667, AL121756, Z96074, AP001055, AC007850, AP001759, AC004905, Z84469, AC007405, AC004840, AL034417, AC004181, AC004983, AC006251, AC006111, AC005627, AF196969, AL356747, AB000876, AF023268, AL158159, AL136418, AL109965, Z95114, AC023158, AL024474, AL136300, AL117334, AC008745, AP001718, U95739, AC002312, AC007371, AC005944, AC008403, AC006312, AC005410, AP001711, AL161672, AC004686, AC004526, AL049694, AF228703, and AC011464.
HEOMF59	783	583518	1 - 1122	15 - 1136	AW962327, AA310991, AA482322, AA482226, AC011088, AL008987, AC011088, AC011088, AP000795, AP000795, AP002497, and AP002497.

HEOMJ73	784	821327	1 - 2391	15 - 2405	AI809846, AI769413, AW467068, AI992107, AI992108, AI214751, AA939120, AA584822, N87943, BF790508, AV706768, BF904474, AA622801, AA347969, AA602906, AA610150, AA633424, AI690750, AI925860, AI925869, AA664604, AI801505, AI400912, AW512344, AA367788, AA302794, AI472686, AA349016, AU136492, BF977921, BF340209, AA076632, BE315422, AA469441, BE743252, AA130662, AU158253, AW968156, AA722014, AW338021, AW338035, AV706166, AA366847, AA652059, AA878954, AW974700, AA636102, N22153, AW073498, AI929410, AI753672, AI750950, AW501411, AU155161, AU138468, BE615527, BF927037, AA614139, BE615146, AA626637, AA553448, AL047427, R44841, AI061414, BF950378, BF858756, H22977, AA525409, AU144015, AA174141, AU147905, AF114149, AA650447, AI832641, M26434, AP000011, AF064861, AC006040, AL049589, AC005154, AC004383, AL365367, AC005187, AC010422, AC006975, AC025226, AL163279, AC008583, AL031577, Z98748, AC006538, AL031074, AP001728, AP001726, AC005098, AL162740, AP001670, AC006571, AC003010, AC006441, AC020663, AL109855, AC005058, AC005355, AL137129, AL023693, AL391374, AL138740, AC004859, AC002094, AC007314, AC007245, AK025575, AC010150, AL137228, AC005730, AL138725, AL035249, AL022401, AC007157, AL139826, AC022493, AC008720, AF165926, AF165176, AL022238, AL353777, AC005697, AL117340, AC007676, AC011470, AL132653, AJ006995, AC004867, AL136992, AL359077, AL163283, AF029308, AC003071, AC005011, AL022163, AL049576, AL136090, AL136137, AC005773, AL353745, AP000246, Z82189, AP000500, AP001710, AC005094, AC006948, AL049840, AL135905, AP001719, D89060, AL096791, AL121896, U91322, AC005104, AL121823, AC007900, AC004587, AC020947, AL109623, AL359763, AC005261, AL117258, AC011890, AF107885, AL137818, AC004011, AL136300, AL050404, and AC006482.
HEOMR67	785	833054	1 - 2923	15 - 2937	BF204304, BF526629, AI862671, BE467828, AI763142, AI640175, AI628675, AW028053, AW299941, AW168042, AW084682, BE391859, AI925714, AW408439, AA917957, BE166433, BE166432, AI660269, AW195537, BE541250, AW405352, AI479258, BE220293, AW014474, BE468083, BF437929, AI307363, AI689830, AI127618, AI632931, AI141032, AI653755, BE246033, AW580452, AW794817, W20018, N51963, BE671077, BE208118, AI391748, AI092093, AA456071, AI400561, AA455574, AI143272,

					AA451632, AI041802, AW967664, AI927327, N91084, AA149536, AA640187, BE813348, N62344, AI265878, BF349401, AA001912, AW151052, N72996, AA001325, AA233047, AI361658, AI888990, BF057171, AI569181, BF476204, AI932787, AI469776, AV710299, BF897921, BF849875, AI262263, AI302905, BE719748, AI459835, AI419492, AW794941, N36823, AI498801, BF989718, AA251659, AW057966, BF108606, BE395587, AI422148, R63280, R76780, N63733, T97658, AA825147, R76891, BE831446, AA988431, AA713874, AA552073, H59120, AI341795, H71986, BF944047, BE858292, R06260, AW300388, AI867600, AW194620, AA808539, H28499, AI767186, AI880786, AA385842, AA890304, BE672770, BF082184, BF154499, T78095, BE162971, AA232957, R77054, AW191589, BE718367, T97657, AI932785, AI866279, AI702830, N46043, T78266, AA151950, BF082173, R76467, AA490780, AW589764, H53848, R06318, AW771105, AA234754, BE926059, AA417838, AA417720, AA323940, H53473, BE084761, AI149255, AW592934, AA725057, AA625832, AW593694, R63229, H27984, BF341659, H59161, N91376, N79102, BE716300, AA323479, BE819746, AA062660, BF083668, AW381902, AA362821, D62439, AI572337, W02960, BF848528, BE932152, AI277251, D80119, AA768703, BF848527, AW381849, AW272046, BF749411, BF107177, BE767199, BE814575, BF436251, T24577, BE005040, AL513865, AL157789, D87434, AL122002, and AL161423.
HEOMU25	786	732063	1 - 1695	15 - 1709	R94856, H74067, R94857, H73802, AL121941, AL021939, AC004892, Z84482, AC004829, AL035453, AC004541, AC007073, AL159164, AL159164, AL121941, and AL121941.
HEOMU44	787	778085	1 - 1871	15 - 1885	AA927690, BF980461, AW237092, BE885551, AW237137, AI935281, AW467637, AI650475, AI590556, AI628080, AI963620, AA203521, AI338027, AI281023, AW803966, AA766731, AA604575, BG164935, BE336651, BE466150, AI609068, AW058425, AI984984, AA278635, AI689223, AW083923, AW838556, AA483799, AA915891, AW473973, BF930829, AI281118, AA864952, AI033401, AI131367, AW029023, AI537394, AW576801, AL047806, AU159069, AW054860, AW131342, AI050729, AI278563, AI806684, AI285145, BG231718, AI304815, AI808414, AW575731, BF437511, AI694866, AA159506, BE550607, AI049943, AI417234, BF908924, AI802782, AI566892, AW004875, AA854319, AA031293, W87523, AA994753, AV686028, AA047286, AI753409, AA252803, AA554061,



					AA480172, T87897, AI802574, BF001776, AW470319, BG168493, AA261816, AW601171, AI015310, AA262513, AA834916, W81534, AI867812, BF887241, AA604150, AW975141, AA665075, AI767613, AI288554, H99123, AA040790, BF085083, AA041227, AA099000, AW796065, AI143400, BF959170, AI184520, AW205569, AI866914, T87990, BF990243, AI824434, W81533, AI149983, AA278634, BE140190, R00576, BF196036, AV734988, AI123417, F10539, AI633765, AA565665, AW390466, BF818976, AI635966, BE715035, H05298, AA047147, T79535, AA707452, R33795, AW263579, R00680, AI719514, AI810930, R44484, H44719, R38562, T97738, AA759017, AW864729, AW949468, AI651401, AA376368, AW752564, AL516235, AA223495, AW194865, BF365231, R33794, AW004034, AW175987, AL118928, AA502294, AA725634, AW205363, AW175972, AA099069, AI376279, AA248814, H62063, BE673639, BF511789, BF980891, AI653509, BG033518, BF056435, AA293345, H61156, T97844, BF877779, AA402916, BF081809, AA399425, AA455122, AA402630, AA402812, AW469148, AW051088, AI863002, AW364690, AW075382, AI698391, AI684244, AI874261, AI590043, BE393784, AA761092, AI524774, AI452560, AW104666, AI918435, AW192300, AL514093, AW834282, AW983754, AI796568, AW195253, N25033, AI540831, AI961887, AI539847, AL514799, AI370623, AI628325, AI889189, AI699823, AW983783, AW188525, AI564389, AI696603, AI866090, AI620214, AI075885, AL514871, AW129541, AI673352, AA164251, AI364167, AI635154, AW196472, AW078606, AL514809, AI636588, AI678623, AI419826, D80009, D87018, AC026273, AP000526, U97675, I89947, S82852, A41579, X78627, Z97214, A52184, AR038854, AL137480, AK026210, AK000414, AF267849, A77033, A77035, AX040974, AK000793, X82434, AF080068, AK027052, A08456, A31057, AL139099, AK024747, AX006054, AL122100, AL137530, Z13966, AJ010953, and AF061981.
HEONI85	788	566833	1 - 1064	15 - 1078	AI003777, BE561866, BE675167, AW665816, AW027541, AA883370, AI914419, AI660782, AI523636, BE397488, AI432707, AI937073, AW172586, AW662895, AA760682, AI949709, AI912247, AA459011, BG169613, AW575936, AA262133, AW293520, AI379541, AW405169, AA831958, AA833767, AA766594, AW192193, AI475826, AA465590, AA767588, BF871361, AI674976, AA836606, R53785, AA480888,

					AI583105, AA765020, AA764869, AA262134, BG106737, AA174152, AW407122, AA765353, AR096769, and M37030.
HEONK04	789	658682	1 - 1539	15 - 1553	AI760011, AI538476, AA694296, AW408272, AI052200, AA678263, AA746203, BE222586, AI476354, AA879070, AA468710, AA884265, BG059254, AI189483, AA740509, AA450047, AA677786, BG005941, AW968388, AW967411, AW440987, AA988660, AW440832, AA465503, R06125, AI247125, AW796610, W86979, AA255787, R12369, AA987798, AI244267, R85847, AA452680, BF902891, AW408273, AA743030, BF089815, AA776278, BF895368, AA054511, BF901550, T80782, BF998144, AW118269, BF925862, AK000783, AF146531, AB032698, AB032707, AB032710, AB032708, and AB032709.
HEONP08	790	601691	1 - 1244	15 - 1258	BF593912, AU145929, AI742942, AV723392, AA193565, AI694760, AI264061, AW779774, T97909, T97910, BF970161, BF724691, AW198038, AW079368, BF725644, BG163618, AW169671, AI539771, AI539153, AI637584, AI520785, AW129170, BF725868, AW104724, AI811344, AI885974, AI889376, AL514701, AI812107, BF727091, AL513991, AI446606, AI590021, AI445025, AI690312, BF342070, AI475451, BF526020, AW169653, AI804585, AI687362, AI802542, AI439087, AI568296, AI281837, AI453322, AI619502, AI696612, AI520862, AI564719, AW071349, BF812938, AI433157, BF812961, AI612920, AI571551, AI572787, AI249257, BG179993, AI636719, AI702433, AI884469, AI274541, AL514155, AW148408, BF341801, AI570909, AI702406, AI584140, AI805638, AW150578, AI269696, AI909697, AI433976, AI812080, BG118199, AL515191, AI610690, BF527014, AI783504, AI440239, AL514867, AW301409, AI554484, AI560099, AI573032, AI590120, AL040243, AL513553, AW082040, AI536638, AI888501, AW086113, BG180034, BF792469, BF726504, AI912866, BE048071, AL514025, AW130776, AI684234, BG058398, AW026882, BE875407, BE965169, AI922901, AI554427, AI702073, AI648684, AW274192, AI888953, AA835801, BE048135, BE018334, AL515413, AI282504, AI921248, AI921232, AI498579, AI799199, AI583065, AW102785, AI499131, AI921244, AL513911, AL514087, AI677796, AI569583, AI926790, AI273048, AI784252, BF792961, AI872711, AI567612, AL514473, AV755668, AW198090, AI633308, AI500077, AL513577, AI590530, AI625079, AI859511, AL121328, AI538829, AW083783, AL513947, BF868489, AI654750, AI521100, AI922676, AW827289, AW008048, AI281779, BF055737, AI857296, AW132056, AV726605, AI591316, AI224992, AW088793, AI828731, AW162071,

					<p>AL514627, AI097248, BG112718, AL513631, AV726229, BF970449, AI800453, AL513597, AW071417, AI469532, BF752252, AI619749, AV758668, AI284484, AW403717, AL513779, AI567128, BF812933, AI868831, AI468872, AI475455, AW090013, AL513951, AW088043, BE966388, AA427700, AI343059, AI273142, AI608667, AI934011, AW068845, AI636445, AL513807, AI612759, AV758087, BG036846, BF971016, AI492528, AL079963, AL036396, BG164371, AI349933, AI950664, AI633419, AI537677, AW075667, AW002342, AI862139, AV734591, AI569616, AI701074, AI862142, AI520793, AI440426, BF904265, BF679324, AW103893, BF924882, AW183130, AI866608, BE967187, AF143884, AC016144, AL050310, AC073607, AL158196, AC006371, AL356863, AL078591, AC005224, I48979, AC002464, I48978, AL162083, AL050149, AB041801, AL133080, I89947, X84990, AF314091, S78214, AF119899, AK026045, AF116631, AL122123, AK026647, AL049452, AL080060, A08916, AX019230, AK025958, AL110221, AK000445, I89931, AK025092, AF090896, AB048953, AF017152, AF130104, AX019229, AC025765, AK024538, AF113691, AL390167, AL080137, AL117460, AF130075, A08913, AL122121, AK026592, AF090900, AF119875, AB048964, AL080124, AL133075, AF125949, AL110225, U42766, AF116639, AK027096, Y11587, AL442082, AL137527, AF113694, AF207829, AX006092, AL050138, AB047615, AF111851, AF116646, AJ000937, AL122050, AL133557, AK026865, S68736, AF113019, AF118070, AL110196, AL162006, AK025772, AL157431, AL359941, AK026533, E03348, AF113689, AL389978, AK026608, AR087170, AK000083, AF130092, AR059958, AF130105, AF116649, AF113676, AF158248, AB019565, AF116691, AC004555, AC004555, AC004555, AC004604, AC004604, and AC004604.</p>
HEPAD15	791	587299	1 - 332	15 - 346	<p>AA335381, AC008534, AC008534, AC008534, AC025766, AC025766, AC018806, and AC018806.</p>
HEPBC23	792	799985	1 - 527	15 - 541	<p>AW629449, H66087, N41736, N78850, AW075419, AI683718, AW206275, AI138920, AI373625, AI200357, BF057240, AI239909, AW665887, AI133114, AI280134, AA975421, AA911235, AI149811, AA707273, AI280132, AV647294, AI867641, AL040902, AA854195, AW136195, BF056396, H66042, BF115978, AI983341, AI888066, AI479484, AI289301, AW024182, BE717041, AW961568, AI193472, AI003773, AA994171, R08936, AA330432, R85613, AA828633, AA828634, AI201253, AA905843, W52485, AA890157, T47813, AL534043, AW949857, R94967, AI266519, AA902857, W17121,</p>

					AI627265, T81984, W52781, AI804975, BE221954, AL038820, AA927675, AA974372, H57153, AW466867, H67885, H67898, T72172, T68550, H47076, R95687, AV683375, AA705712, H67302, T29818, H56646, AV700239, BE504691, BE552280, T47845, AV682730, U28055, U28054, M29891, AL021920, AL137798, I36332, I36333, I36334, E12495, I84668, I36338, L11924, I36337, U37055, AX019517, AX019515, AF116647, M29892, H77695, AL354666, AL354666, AL354666, AL137798, AL137798, AL137798, AC021338, AC021338, AL021920, and AL021920.
HEPBV09	793	588404	1 - 450	15 - 464	AI521155, AI452634, AI003488, AW274256, AA634329, W32478, AA435577, AI289997, AA782155, AA730771, AA730762, AI908762, BF736321, AA436725, X81892, A93546, AC034283, and AC034283.
HEPCF35	794	603521	1 - 439	15 - 453	BG054617, AA736772, AL139180, AL139180, AL139801, AL139801, and AL139801.
HEPCU48	795	805585	1 - 2198	15 - 2212	AL535214, AL040643, AL040644, BF984005, AL515259, BE467686, BF528350, AW603681, BE018704, BF448183, BE315558, AI650302, AL042804, AI650559, BF195768, AA894913, AI554609, BE465163, BE551069, AW300584, BE503133, BE328819, BE671125, AI568388, BF983767, AA670164, AI797053, BG180466, AA621570, BF223633, AI563968, AW246320, BE046386, BF062444, N25930, AI298438, AW770569, BE674277, AI927626, AI609030, BG149693, AA984239, AW005800, AW088169, AW138432, AI564013, BG007394, N41486, AW612787, AI126557, AI803219, T48178, AW770770, AW014098, AI962504, AI357569, BF195970, AA040929, BF064166, BF435240, H97941, AI972673, AI343941, AI275817, AW242349, AW242665, AI795978, N70583, BE302273, AI536786, N29462, AI357419, AA468485, AI620137, AA467890, W45584, W04884, AA102261, AI040293, AW779786, AA974172, AI565749, R59318, BF038852, AI537410, AI088418, R37635, AW958851, AA099791, AW003157, AW236035, BE463765, N35536, T51561, N39275, N35574, R59317, AA040930, AA993669, AV688569, W45547, AA467832, AI824739, AA173919, N42494, R35817, AW237627, AA865263, R13777, BF358807, BF981084, AV656732, AA344737, AI630737, AI868876, AA299579, AA357540, AA211260, BF196978, AI741060, AI632149, BE326367, AW582605, N26485, AA470359, N56162, BF732830, AA464150, AL515260, AI241922, T25989, AL042803, BF002859, AK000391, AK000475, AF095136, AF095150, AF095147, AF095149, AF095142, AF095143, AF095148, AF095146, AF095145, and AF095144.

HEQAH47	796	877634	1 - 1504	15 - 1518	AL519977, BE383449, AL043766, BF061686, BF221776, BF310701, BF060773, BF434074, BF062728, AI659849, BE313561, BF314046, BF316323, AI659290, AI824840, BF061701, BF312471, AI751263, AI685765, AI591068, AI587181, AI920932, AI400351, AI148305, AI955664, AI652541, AI675888, AI653379, AI424943, AI128448, BE313794, BF437698, AI275016, BF590996, AI561014, AI660936, AI491938, AI968617, BE047763, AI127265, AA643524, BF313828, AI866540, AI751264, AI828892, AI824814, AA970985, BE855979, AI589275, AI768084, AA477627, AW371357, AI926713, AI969893, AI335684, AA057195, AA478085, AW193325, AW002099, AI672890, AI991492, AI225080, AW191017, AI804237, AI918988, AI215462, AI660046, AW263221, AW166456, AW361968, AI923034, BF939318, AI672957, AW008276, AI421034, BF941981, AA101823, AI474549, BF514389, AA968480, AW591386, AI972480, AI758252, AI277535, AI611291, AI446797, AA627406, AW082500, AI673160, AA127893, AW085658, AA101824, AI491939, AI445814, AW513225, AI656563, W21432, AW590943, AA128143, AW196052, AW452957, AI419247, AI356191, BF593921, AI339204, AA973738, BF196865, AA973140, BF941530, AA423796, AA962026, AI572714, BF593478, AA057129, AA834119, AI333104, AI401697, AI539260, AI628325, AI345415, AW163834, AI590043, AI698391, AI440238, AL047763, AW130362, AI523973, AW150622, AW008166, BF531023, AA565269, AL042567, AI361701, AI619820, AI434731, AI653402, AI880111, AI500061, AI345688, AI862067, AI800648, BE393784, AL037602, AI872423, AI524179, AI289791, AI927233, AI565172, AL037582, AI866469, AI370623, AL079963, AI678446, BG250475, AW189716, BF909758, AW196720, AW129659, AW081383, AI784214, BE964705, AV659072, AI244343, AI445611, AI680467, AI250646, BG260772, BE877401, BE907624, BG034598, AI699823, BF724420, BE904851, BF750886, AI869125, AI869377, AI582932, BE957870, AI638644, AA659688, AL036241, AI972112, AI345612, BE867194, BF035213, BE905161, BE873695, BE877904, AI345416, BE967004, AI627714, AW188525, AI251221, AL036673, BG169738, BF525838, AI290677, BG256090, AI470717, AI499570, BE963809, AW051088, AW983832, AW117882, AI471282, AI621341, AI440239, AW130104, AI866127, W45039, AI536574, AI583558, AI583578, BG118199, AI889189, AW075382, AI348847, AW083572, AW161202, AI366959, AI633125, AI800341, AI310575, AI869765, AI860027, AI538564, AI335476, AI866040, AI915291, AW152182,
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HEQAP92	797	637608	1 - 1484	15 - 1498	AK025524, AF119843, and AC013403. BE870110, BF110955, BF245246, AI671615, AI765377, BE503202, BE968460, AI798697, AW970595, BF111075, AI334153, AW590408, AA809300, AA716505, AW025166, AI126284, AI262175, AI379518, BF817198, AW195049, AW466984, AI582627, AW194715, AI248644, AI278798, AI276018, AI151157, AI089257, AI276006, AA406266, AI922804, W31763, AW300492, AI040123, AI687327, AI262819, W19943, AI991449, BG112541, N94997, AA156360, AW612377, AI139499, AI263800, AI687478, AW578425, BE000876, N95004, AI250153, H22950, AI203194, AW614122, AA421743, AI084309, BE006695, AI089256, BE006679, BE006689, BE006680, AA742600, BE006681, AW003136, AI352657, BE006685, AW295384, AI796140, AI242597, AI870465, N92627, AW402821, AA669368, AW205039, BE927872, AI811814, AI811430, AI971277, AI762891, BE927859, BE766420, BF839146, BE898789, BE314949, AA913312, W39139, N91023, AA503308, AI784285, AW273935, BE789892, AA155877, AI654486, AW390245, AL136980, AK026962, AL136980, AL136980, and AL136980.
HEQAV53	798	722016	1 - 1612	15 - 1626	BG180327, BF340448, BF432731, AI879411, AI833017, AA524714, AI872048, AW274016, AW300989, N28852, N28844, N21614, AW241800, AI743068, BF591702, BE258646, BF976800, AI885332, AI435154, AI081766, BE464912, BF509829, AW044141, AI457562, AL134998, AI254743, AI582974, AI142735, AW015178, AW893386, N21609, AI699941, AI355838, BF879653, AW972249, AA045436, BE042420, AA102591, AA193370, AI306131, AA994855, AW051084, N31903, BF699493, BF980926, BG257686, BF985076, U84249, AF059195, Y11514, AB009693, and AB026487.
HEQBJ01	799	834633	1 - 655	15 - 669	AW674190, AA506984, AI479185, AA825728, AW293518, AA581790, BG034042, AI298011, BE503479, AI889014, R51293, AA421239, AW237314, AI867571, AA433904, AA420605, AI860811, AW440819, AI147954, AA070872, AU130720, BE670583, AI765413, AI765401, AI432178, AI015938, AA565222, BE219974, AA569041, BE502734, AW772442, AI589634, AI744148, AW169762, AA534578, AI197943, AA171761, W51790, AI422286, AI744113, AI916160, W45413, AW591668, R52097, AA425349, AI076564, AI768356, AI188829, W73608, AI149224, AI160529, R59310, H62930, AI708313, AW511347, W81420, AA421279, AI271621, AI768849, AA806028, BE702753, AA815452, Z38264, T87186, AW971745, AI370602, BG152825, R50941, BG105308, AA172002, F01748,

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HEQBJ01	800	861786	1 - 2777	15 - 2791	AU123703, AI744148, AI744113, AU130720, BE897357, BG105308, AU137281, BF308835, AI860811, AI889014, AI765413, BE546221, BE670583, AW237314, BG248530, AW952369, BE502734, BE503479, AI765401, BE540301, AL042645, BF212478, AW500417, BG249708, AW674190, AI867571, BE018153, AW293518, AA534578, AI432178, AW169762, AA506984, BE389321, AA420605, AI142237, AA406169, AW591668, AW188054, AI147954, AA430324, AL040186, AI197943, AW502601, AI589634, AA569041, AI015938, AA433904, AA070872, AI188829, AI124780, AI149224, AA421239, AA420647, AI916160, W73655, AI076564, AI768356, BF592904,

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HEQBJ01	801	876546	1 - 2777	15 - 2791	AU123703, AI744148, AI744113, AU130720, BE897357, BG105308, AU137281, BF308835, AI860811, AI889014, AI765413, BE546221, BE670583, AW237314, BG248530, AW952369, BE502734, BE503479, AI765401, BE540301, AL042645, BF212478, AW500417, BG249708, AW674190, AI867571, BE018153, AW293518, AA534578, AI432178, AW169762, AA506984, BE389321, AA420605, AI142237, AA406169, AW591668, AW188054, AI147954, AA430324, AL040186, AI197943, AW502601, AI589634, AA569041, AI015938, AA433904, AA070872, AI188829, AI124780, AA421239, AI149224, AA420647, AI916160, W73655, AI076564, AI768356, BF592904, BE464156, AW772442, BE219974, AI638215, BG034042, AI125307, R51293, BE812953, W51790, AA172002, AA425349, AA565222, AA313542, AA825728, R35270, AW204507, BF306159, BG152825, AA100809, W28763, BF223048, AI222042, AI479185, W26572, W45413, W73608, R52192, AI160529, AW440819, AI422286, AI298011, AA171761, AA421279, R51403, H62930, R52097, R59309, BF880022, AA581790, W81419, BF844067, AI768849, W40121, AI708313, AW511347, AA373236, AW368276, BF844000, AA434583, AV747735, Z42217, BE702753, W81420, AI962360, AA325784, BF879714, R59310, AI271621, T25845, BF879715, T06069, F05246, BF880008, AA806028, Z38264, AA071023, AA815452, N54389, BE929180, BE929187, BE929175,

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HEQBM94	802	580823	1 - 1011	15 - 1025	AL524318, BE259307, BF684415, BF026559, AA731740, AL524319, AI823871, AA099118, AW410515, BE048828, AI018005, AA404348, AI830382, AI693468, AI239456, AI207410, AI751650, AA748998, AW014917, AA149023, AA766177, BF590456, AW405480, AA779353, AI281347, BE394435, AA748482, AA610231, AI088514, AA149022, AW468419, BE673033, R73023, BE410751, AA488631, AW074036, AI433436, BE896825, AW410514, BF973593, AI559723, BF438403, AW193727, BF115627, AA922974, BF307606, BE958389, AI751649, BG231451, BE002990, AA099117, BF724508, AI687624, AL515171, AA845918, BG113168, AW972845, AC020908, AF315354, AC020908, and AC020908.
HEQCB93	803	570801	1 - 906	15 - 920	BG179787, AI651287, AI057110, AW173050, AI224153, AA778654, BF108402, AU144267, AA927642, AI928326, AI918905, BF432742, BE550831, N99209, AI621109, AA861647, AA912816, AI051766, AI338452, AW590969, AI984389, AI873347, AA381210, BF693843, N66209, AW025785, AA381211, BE893215, BE326582, BE674192, R81963, AA974626, BE218077, AA810143, AA932905, N64580, AV703747, AW611624, R81962, N92995, AI917790, AA057313, F03225, AI928219, BG149497, BE618736, BF671020, AW883842, BE464990, AW242580, AI690300, AW770453, AA978314, AI802542, BF669247, AI521012, AL514473, AL514359, AI538716, AI804585, AI433157, AI783504, BF725126, BG036846, AI439087, BF812961, AL514867, AA572758, AL119791, AI475371, BE966479, BE964682, BE047952, AI812080, AL513947, AI567351, BF338233, AA640779, AL514701, AI473451, AL513907, AI702433, BG180996, AL513597, BF816811, AL513553, BF725644, AI564719, AL036802, AI499131, AL514025, BF904194, AI432969, AI620284, BF812938, AL513999, AL513977, AL514097, AL513763, AL036396, AI349933, AW238730, BE964812, BE048071, AL515373, BE963918, AW068845, AI539153, BE894455, AI539771, AL513631, BE964700, AI866608, AW169653, BE964741, AI654750, AI469532, BE048319, BE172412, AI811863, BF344652, BF527014, AI499393, BE781369, AL513577, AI678989, AL514793, AL045500, AI932953, AI475451, BE965190, AI309401, BG179250, AL038605, AV660662, BE874133, AI349645, BG031664,

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HERAI63	804	637610	1 - 801	15 - 815	AU122146, AK022346, AP001320, AP001320, AP000663, AP000663, AC011875, AC011875, AC011875, AP000848, and AP000848.
HERAQ22	805	603522	1 - 572	15 - 586	AL356355.
HERAS61	806	603186	1 - 232	15 - 246	
HESAG57	807	855936	1 - 1687	15 - 1701	AW992984, BF945249, BF921430, BF921431, BG003151, AA931479, AW341682, BF962779, R74148, BF090092, BF957794, AA025079, AW578880, BG223267, BF921106, R74054, BF966914, AW444971, BF897694, BE466545, BF057034, AA356141, T12116, AI143874, BF887863, BF944825, W40521, H14247, BF875513, BF897695, AA249536, AI902570, AL044898, AW377628, AL044941, AW377639, BE166192, AW499980, AW377640, BE709338, BE831645, AL040811, AA402442, AA011501, AA293841, BE883490, M85634, AF012072, E16400, and E16398.
HETAA62	808	828737	1 - 2579	15 - 2593	AW954643, AI453545, AI346427, AI348016, AA612573, AI601101, AW952595, AI123932, AA916423, AI346237, AI697840, BF955211, AA946618, R36320, BF210882, H43798, AW374530, F11803, F06514, AA457235,

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HETBB70	809	738530	1 - 714	15 - 728	AA605090, AA337621, AA910468, AA337624, AW966232, AA337596, AA337401, AA337608, AC018634, AC018634, and AC018634.
HETBJ88	810	855937	1 - 1683	15 - 1697	BG252201, BE894106, AV726464, BF970560, AV726994, BF132059, BF977798, AI703275, AW512938, AI767521, AI823746, AL529708, BE220262, AA583438, AI143608, BG007081, AW468337, AI949854, AI620344, AV727138, AI209187, AI630993, R70620, AW394003, AI004986, AI565892, AI367983, BF056815, AV715169, AL529709, BF381743, AA931697, BG007658, AA152183, AI025252, AA297479, AA150060, AA088574, AA565300, AA995899, AA297478, H71679, T84083, AW138535, AA367654, R24591, AI865989, D29436, T83438, AA044326, AW338484, R21165, H00983, AI005551, AI669105, R76620, H39751, Z45535, BF091777, AA971307, BF083909, BE934286, AW138127, T84151, AI554153, BE550213, AW945769, AW373316, AW373313, H01724, BG164577, AW051517, T89390, AA180271, BF083903, AF140242, AL133390, A68713, AF140241, and AX013137.
HETCM67	811	861909	1 - 2033	15 - 2047	AI927716, AA479710, AI624420, AI696897, AW977816, AI470208, N64824, AW298323, BE833841, AI921914, AW887718, AW605922, BE833813, AA280392, BE169428, AA648830, BE169440, BE833811, BE833805, AI866003, AA805155, AI624552, AI393447, BE833854, BE538260, AW879171, AW868522, AW364516, AI364737, AW868523, N75676, AJ242015, AF137334, AJ242014, AF137335, AR088818, A61275, and A61276.
HETDD61	812	800668	1 - 1791	15 - 1805	AL520924, AL524864, AA203228, AW957754, AW970499, AU145242, N58127, AI970999, BE207510, BE242723, AA805508, BF087903, N52797, W87571, AA543049, AI224173, AA481100, N49240, AW086144, W87476, AI702077, AW439223, AA480173, AI208249, AA481045, AA676568, AA968423,

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HETDD61	813	852381	1 - 1790	15 - 1804	AL520924, AL524864, AA203228, AW957754, AW970499, AU145242, N58127, AI970999, BE207510, W87571, BE242723, AA805508, BF087903, N52797, AA543049, AI224173, AA481100, N49240, AW086144, W87476, AI702077, AW439223, AA480173, AI208249, AA481045, AA676568, AA968423, AA977512, AI339421, AW957756, BE350713, AA551673, N57619, H61729, H18441, H90534, H90630, AA354107, Z41571, AA337628, AA948533, AI990383, AA337623, H24029, H22748, AW945283, BE825526, H18549, H61939, BF082936, AW945334, AA336808, AW873749, BF082937, N58971, AW075792, AU118752, BF333412, AI270746, AA002111, AA002112, AW072594, BE825410, BE049263, AK001045, AF092094, AF155157, AX013111, AL137856, AL137856, and AL365321.
HETDJ34	814	637614	1 - 1224	15 - 1238	BF791742, BF526721, AI304881, BF792031, AI459243, BE467288, AI916538, AI718418, BF031718, BE501877, BG150493, AI912654, AI498391, AA059408, BF691493, AW207847, AI052711, BF701336, AW341065, AL035742, AW242405, BE670842, BF817893, BF115712, AI796819, AA625201, BE958164, AW264015, BG110630, BE673755, AI075327, AI479086, AI307260, BF696638, AA058947, AW771770, AW674547, BE349893, BF696222, AL036505, AI306737, AA873738, BE856443, AI089159, AW471012, AI061110, AA058955, AW769102, BF184626, AI680667, AA017172, AA722053, AA018715, BF238475, AA040642, D63232, R48121, D63244, R72932, AA040655, AA456848, AA665954, AA045519, AI216040, BE080683, R81262, AA363925, R48008, AI708308, AA483671, AA045531, AA282049, BF668061, AA767266, AW979175, AA829668, H85557, BF131593, AA878356, AA877037, BF035657, AA834829, BF571044, BF381843, AF130358, AL163206, AF130249, D16945, AF130249, AF130249, AF130358, and AF130358.
HETDM73	815	847071	1 - 2258	15 - 2272	AW859595, AW859596, AW340972, AI763378, BE673848, BF678341, AW516306,

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HETDP76	816	782836	1 - 2797	15 - 2811	<p>BE378688, BE792184, BE747403, BE790771, BG252983, BF979507, BE315449, BE792908, BE887266, BE887249, BE908101, AW977406, BF508805, AW131483, BF972456, BE222913, AU127037, BE256170, AI354534, BE279802, AI657484, BF974001, AI151425, AI608760, AW593851, BE710197, BE717044, BE301185, BF591219, BF591233, AI972581, AI638813, BE252048, AI609799, BE256512, BE551348, AI770141, BF115703, AW269413, AI740485, AV748316, AW970219, AW970210, AA534617, AI188123, AI343505, AI219473, BE785211, AI005297, AI022921, AI094293, AI950233, AW874054, AA099881, AI143692, AW970298, AI057002, AI376161, BE351003, AA081897, AA766568, AW271588, AA857338, AW886114, AA085894, AA088846, BG166166, AW181967, AI858680, AW237526, AI288352, N58958, AI681580, AA056343, BF769659, BE884378, AA411756, AA493124, N99111, BF027217, AW886266, AA602723, AI439700, AW084048, W56697, AI401079, BF002525, BF032645, BE384064, AI888436, AI623356, AI313134, H12094, AI434718, AA886123, AI091547, AU149761, H39578, AW952598, H12093, BG152503, R92186, AA333116, W56689, AI343482, H40007, AW886119, AA406570, R17341, R50065, Z43579, AA505835, R92290, R82931, AA932172, AI753526, AI422605, AI273940, AI653831, BE502201, AA337242, AA337718,</p>



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HETFO57	817	844190	1 - 1744	15 - 1758	AL518555, AU119531, AU142820, AW968143, BF664775, BF337143, AA418662, AI633833, AW003153, BF698397, BF670870, BF243932, AI621083, AI927066, BF209950, BE501981, BE535789, BF383031, BF669438, BF697367, AI638855, BF541431, AA722313, AU153537, AW614175, BF240409, BF382590, AU145845, N34796, BE645941, BF696334, AI609090, W88607, AA281630, AA743141, AU160025, AW768645, N36401, AI766687, W88547, BG166557, AV658599, BE925030, N49951, AI367067, AA226957, AI285539, AA481407, N54323, AI471632, AI351081, AA281691, W88968, AL530192, AA897363, AI056786, AA688082, AW511733, BF030837, BE935247, AA693840, AA195526, AA418598, AW511727, W88526, AA370327, N52732, AI803464, N44277, AA481640, AI219685, AA113442, BE552056, BE503399, AW196685, BE502251, AW613978, BF907597, N44518, AW517303, AI968841, AI351189, BF983283, BF327997, AA927769, AA620829, AI955091, AA249323, AI630746, AW083061, AI026823, AI066571, and AK021847.
HETGZ31	818	847072	1 - 1904	15 - 1918	AL529398, BE797428, BG252183, BG171613, AL529399, AU124616, BE887740, AU131102, BG166755, AU123672, BG249967, BF344072, BF970619, BE251781, AU135425, BE256388, BE906817, BE393139, AW439814, BF129108, BE872840, AW026131, AW149540, BE966473, AU148440, BF940933, BE535345, AI608873, AI669338, BF331001, BF751518, BF184939, BE538371, AU136466, AW771147, BF031508, AU152852, AW474975, AI161399, AI860693, AU153427, BF243271, AA196512, AW959574, AA767364, BF800347, BE541712, AA573918, AI860554, AW105335, BE906934, BG250634, AI961324, AU152980, BF154795, AI421437, AI090203,

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HETHD26	819	771521	1 - 1803	15 - 1817	<p>AI028241, BE746987, BE259013, AA203219, AI929630, AI332354, BG169099, AA688143, AI283081, AI051964, AA861742, AW163756, AI025060, AI363484, AW167066, W95027, AW962562, AA700252, AI218657, R85013, BF933152, AI265882, AI350761, BE931192, W93342, AW385055, AI564874, AA577549, AA906584, AA976182, AI799281, H21584, H26794, AI864024, AI351906, AI040478, AA737782, AI276732, AI017479, H26542, Z44715, F11322, BF933254, AW172721, T31603, AA857043, AA905382, AA582308, R78959, AV724383, BE810336, BE810666, BE810662, BE934885, AW840118, BE934872, AW840121, BE810616, BE810590, AW840025, AW840017, AW840032, AW816814, AW939815, AW816801, AW816755, AW816804, AW816802, BE810680, AW839975, AW816796, AW840119, AW840126, BE934863, BE810561, AW840276, AW839989, BE934947, BE810673, BE810684, AW840020, AW816807, BE810534, BE810553, AW877302, AW840021, AW816809, AI681547, BE810746, AW840271, AW840130, BE810739, BE810591, AW840291, BE810569, BE934866, BE810737, BE810525,</p>

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HETHM27	820	610080	1 - 946	15 - 960	AL521042, BE645133, AI193969, BE549921, AL045984, BE552220, AI816899, BF591967, AW026994, AI078553, AI479647, AW242295, AI917285, AI810135, AA400227, AI950353, AI335090, BF447605, AI084458, AW514167, AI354824, BF223308, AI168529, AI383574, AA234779, AW263194, AW351992, BF858113, AW069150, AA732763, AI279365, AA988514, AI522269, AA780536, AI150050, AI223221, AI656675, AA732226, AI598176, AI521573, AI702205, AI474183, T23558, R11387, BF195502, H23999, AW015983, BG002129, AW874366, AA743329, R59364, AI868447, AW848589, AI270303, R60956, AA418610, AF114134, AI872945, AA234711, BF529852, AA994891, AW351577, R14883, BE143080, AA026989, AW882879, AA370474, AK025541, AL023803, and AK026412.
HETIN36	821	840363	1 - 622	15 - 636	BE501712, AW377424, AI697470, AI748801, BF115827, AW339456, AI700750, AI720744, AI279141, AI720421, AI985035, AI624856, AA630239, AI690207, AA552037, AI749272, AW302255, AI613073, AA486673, BE695899, AI709263, AA838075, AW780129, AI493247, AW273755, AI832808, BF437630, AI654071, AI925932, AW270873, AI833092, BF083323, AI700126, AI678144, R54622, AW001735, AA485303, AA953731, AI633999, AI720864, AI963703, AW614173, AA485460, AA555209, T94865, AW132088, BF767851, AW271969, AW377450, H14641, AA552441, AI889437, AI539136, AI459687, AI474787, BF767846, BF767810, BF767867, BF767852, AA347725, BF767815, BF767845, H26632, BF767808, H44026, T94910, BF767865, AI433393, AI273946, H70926, BF767134, T39321, BF767853, AW299847, AI470617, AI284215, D25586, AI678860, BF767847, AI916628,

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HFAAI17	822	607563	1 - 1081	15 - 1095	AA578621, AI440117, AI358712, AW271977, AW069227, AV764259, AW023111, AA642809, AW302017, AA424249, AA828570, AI301475, AW057873, BF965243, AA583728, AA128511, AA846923, AA669238, AI254779, AI754257, H73230, AA808982, AA610505, AV756491, BF916055, AI611533, AA630526, AA551268, AA713769, AA661550, AW672927, AA112924, AA368155, AA373861, BF032064, AW502873, AV733858, AW104163, AA701105, BF953591, AA687542, AI216990, AW872707, AA313075, AW852576, H71678, AI493583, AW238341, AI687343, AW518140, AA581263, AA833896, AA715173, H86221, AA833875, AA715075, AA364006, BE906142, AA338233, AA503307, AA936718, AV762245, BF904603, AA182731, AA501807, F03341, AA719073, AA308598, AW188742, AI590404, AW872574, AA513921, AL158046, AC005661, AF196969, AC005823, AC004686, AP001207, AC004878, AL137787, AC002288, AC010326, U80017, AL031589, AC007666, Z93015, AC008736, AC004841, AL022318, AL109942, AC011495, AC005529, AC005327, AL023879, AL117336, M87889, AC005527, AC027319, Z70280, AF001548, AC003081, AL138970, AL136132, AL138741, I34294, AC009228, AC007957, AC006312, AC005606, AC025435, AC009194, AC005071, AC005261, AC004263, AC004019, AC006430, AC002115, AP001693, AC007216, AC005000, AC002492, AL355836, AC003029, AC007193, AP001711, AC025594, AL031767, AC000025, AL035415, AC020898, AC009116,

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HFAAJ45	823	784174	1 - 499	15 - 513	AW975051, AI936575, AA600121, AW265012, AW270761, AA283904, and AA657833.
HFADF41	824	607557	1 - 782	15 - 796	AV707600, AW967329, AW963349, AV727065, AV706016, AW961606, AV654027, AV705697, AW963652, AV702425, AW962388, AW956514, AW967052, AV707331, AV705086, AW954242, AV709139, AW962006,

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HFADM09	825	899435	1 - 2224	15 - 2238	Z41946, BE767072, Z45779, T74152, F12543, H12184, H09230, H15502, AL119229, BF528583, BF528718, M62027, U84543, U26743, U46746, U26744, U46744, U46745, AP002411, AP002411, AP001270, and AP001270.
HFAUA23	826	636071	1 - 485	15 - 499	W80477, BF246833, BE150092, AA705447, AL038581, T09152, AA342804, AV713408, AW961911, BE222770, N72944, AK001384, AC005103, AF047825, AC002542, AL353574, AC004965, AC009336, AL136146, AC018635, and AC018635.
HFCAG75	827	834834	1 - 774	15 - 788	BE386659, BF126013, AI754653, AI733856, AV762633, AW974932, AW302705, N23504, AW302659, AV759507, AA515728, AI040051, AV759632, AA410788, AU147162, AA629540, BF725844, AW970987, BF804385, AA847499, AA644090, AI923052, BE139267, AA535216, AI669589, AW023111, AW020088, AA579179, AI587583, AI587565, AA602906, BE139358, AW973992, AI962030, AI926728, AI675615, AV656063, AV756056, AI279417, AV760508, AI537020, AW062724, AW970871, AA714011, AW964231, AA513851, AW575605, BF681619, AV761107, AV763026, AV763058, AI753488, AA833875, AA833896, AW975049, BF525663, AW979058, AA904211, AI891080, BF589824, AL079645, AA630854, AW328331, AL040054, AA704393, BF725884, AI310670, AV758870, AV744179, AV757289, BF854308, AV763540, AA338659, BG250286, AI061313, AA634786, AA669155, AI017251, AW970877, BF678990, AA719073, AI521525, BE062159, AI251576, BE501593, AV756491, AA503298, AV764259, AW969743, AW819125, AA601674, AV761989, AV760915, BF805088, AV758790, BF793139, AA167055, BF530611, AI056177, AW188427, AI307201, AW833297, AA643770, AV764334, AI805363, AI473671, AC020913, AC002288, AC027121, AC024171, AL031735, AC007510, AL035089, AP000128, AP000206, AC007655, AL133372, AP000245, AL445567, AC021075, AL121761, AC018764, Z97353, AL109938, AC007444, AF217490, AP001709, AC005701, AC002060, AC005386, AC005226, AC019227, AC007030, AC005497, AC006543, AC006544,

102760" E8005660

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HFCAl40	828	866441	1 - 2997	15 - 3011	AU133390, AU141186, BG105851, AW340702, AI052245, BE876980, BE870990, BG171374, BE781473, BE897641, BG169230, BF976444, AW675122, BG114259, AU136081, BF663702, AW157222, BE876026, BG027045, BE395248, BF242581, AA164698, AA776449, BF664713, AA165344, BE379922, AW367403, AI393777, AW957486, AU156469, BF447107, AU154735, AU158633, BF768493, AW630760, AA164513, BF700762, AW519253, AU158823, BF513357, AI923938, AI636382, AW674712, BE566023, BF977244, AW519126, AI373330, AA972206, AW974394, AI658888, AI420086, BF690918, AA025025, AI936011, BF575717, AI312781, BF002565, AA164514, N33406, AW627536, AW013935, AA761500, BE566156, AA551396, AI351170, AW438977, BG001541, BF215540, AW674510, AA837366, AI755109, AA233339, R63394, AA523675, AW337650, AI539807, AA714823, AA971361, AA618210, T26470, AW163226, AA876755, AA952871, AI452607, AA541523, AA777549, AA872427, AI168612, Z45966, AI400984, R14651, D61892, R60601, AA374279, AI961944, AI572303, R51172, H60289, AA338768, AI687384, T26469, AV699261, R63451, R92939, R92938, F05241, AA853700, R15704, AI909252, Z38259, D62747, R44608, AA912129, AA025024, R60547, AI908147, R51056, F04818, D79435, BF733863, T98508, AW518569, BF572724, N44868, R36414, AI539203, R27533, AW572658, D62777, R16067, R28045, AA922183, R45630, R25674, D79635, BE830643, R19338, AA745133, R28266, BF154819, BE830607, T98452, BE830652, AI911016, AA853699, R36137, AA091232, AA279985, BE716573, BE705828, AA648573, BE830611, BE879222, AA248958, BF757012, and AB002370.
HFCAlQ17	829	695720	1 - 1431	15 - 1445	AI128439, BE872547, AA995398, AA339117, AI417421, AI885636, AA380675, AW118963, BE741214, W30875, BF239085, BF245537, BF690627, AL036709, AV690042, AV739199, AA492039, BE738960, BF979109, BF979106, AV760832, AV740258, AV744653, AV745068, BE702697, AV743802, BF244617, BF184040, AA225065, BF571537, BE739741, BF692631, AA629629, BF664781, BF246026, AV713254, BF218506, AA255573, BF675236, AA480432, AW272279, BF360678, AV739269, AV739302, BF673521, AW937790,



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HFCBC16	830	559312	1 - 989	15 - 1003	BE676992, BE676986, AA339435, AI491867, N48565, AL049569, AL159977, AC006084, AC004820, AC002365, AP001759, AC007956, AC006962, AL163285, AP001732, AC008536, AP001715, AL022238, AP001039, AL442167, AL133511, AC005249, AL049569, and AL049569.
HFCBL53	831	845800	1 - 1887	15 - 1901	AL534652, AL534651, BF508764, AV726072, BE892465, AV726218, AL134197, BF977605, AW952805, R53269, AW088233, D55831, BE351035, T06956, N29044, AW207881, D55944, R59051, H97961, AW088206, N20667, BF510352, Z43266, T15737, D52262, D53558, AA987933, T03823, D55863, BG056872, Z39335, AA460466, AI003191, T35779, D61180, R35376, F06226, D54955, AA772841, AA339551, T15845, T32237, R52614, Z38574, D55851, T32182, R49183, T32184, R40315, D63330, T15879, R49678, R58993, T24788, Z42034, AA829782, T32138, T03340, D55817, F02507, AA228147, D52638, AA885400, BE797921, AC002119, S82819, S73375, AC002119, and AC002119.
HFCBL53	832	852457	1 - 1887	15 - 1901	AL534652, AL534651, BF508764, AV726072, BE892465, AV726218, AL134197, BF977605, AW952805, R53269, AW088233, D55831, BE351035, T06956, N29044, AW207881, D55944, R59051, H97961, AW088206, N20667, BF510352, Z43266, T15737, D52262, D53558, AA987933, T03823, D55863, BG056872, Z39335, AA460466, AI003191, T35779, D61180, R35376, F06226, D54955, AA772841, AA339551, T15845, T32237,

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HFCBL53	833	858733	1 - 1887	15 - 1901	AL534652, AL534651, BF508764, AV726072, BE892465, AV726218, AL134197, BF977605, AW952805, R53269, AW088233, D55831, BE351035, T06956, N29044, AW207881, D55944, R59051, H97961, AW088206, N20667, BF510352, Z43266, T15737, D52262, D53558, AA987933, T03823, D55863, BG056872, Z39335, AA460466, AI003191, T35779, D61180, R35376, F06226, D54955, AA772841, AA339551, T15845, T32237, R52614, Z38574, D55851, T32182, R49183, T32184, R40315, D63330, T15879, R49678, R58993, T24788, Z42034, AA829782, T32138, T03340, D55817, F02507, AA228147, D52638, AA885400, BE797921, AC002119, S82819, and S73375.
HFCBT29	834	654842	1 - 1163	15 - 1177	AV750730, AU127443, AA385917, AW504749, AV760019, BF925233, BE540551, BG119102, AV658631, AK022818, AP001711, AC002470, AL024508, AC005282, AL136137, Z98742, AL353653, AC004686, Z95331, AC006511, AC007537, AC007308, AC005911, AC004531, AC008569, AL049589, AL022319, AF168787, AC008009, AC008474, AC006011, AJ009611, AL158198, AL031848, AL391839, Z68881, Z84487, AC009501, Z98950, AL078596, AL022312, AC011811, AC007383, AL034379, AC007263, AC006130, AC005261, AL139286, AC010273, AC010273, AC023629, and AC023629.
HFCCZ31	835	732437	1 - 1717	15 - 1731	AV729024, AV718131, AL134407, AI632734, AU138964, AA205995, N94992, AA373609, BF334405, AV727305, AU142095, AW957484, BF304994, AU159473, AA360612, W19461, AU147216, AA347395, BF509546, BF309999, AA223249, AU121394, AA227837, AA977332, AW959002, AA195551, AV651028, T17269, AA095452, T24873, AA916022, T32050, T71535, AA009855, W03326, AA322567, AA316907, BE045233, AA507169, AA714592, AW865946, N26276, AA053531, AA634946, N98320, X95677, AC005102, AC011456, AC007097, AL354872, AL049840, AC021016, AC009314, AC008736, AC004525, D87009, AC000024, AP001730, D87011, AC006449, AC002303, AF196969, AL022336, AC008928, AC073316, AC007722, AL009031, AL136980, AC002326, AC005940, Z85996, D78577, U92023, AC007308, AP000115, AC005041, AC005036, AL022238, AP002898, AL096870,

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HFCDN13	836	722221	1 - 1084	15 - 1098	AL514307, AL520687, AL516745, BE796353, AI064900, BE962093, AL044180, BG167201, AI673281, AA166846, AI936893, BF526104, BE390702, AA573117, BF968524, AA779673, AA404642, H97466, AI597869, AW157097, AA476914, AA583047, AL528644, BE744287, AI201238, AA261975, BE220861, BE814335, AA558436, AA679257, BE857974, AA679215, AL514308, BE868293, AL515384, AA845480, BE208048, BF110989, AI890886, AL530793, AI362061, AI378378, BG056351, AI190426, AI022738, AA418017, AW166886, AW205598, AA744509, AW291040, AI351845, AI660122, AI686223, AI200900, AA456062, AI590082, BF347773, H71359, BF528966, AI831459, AI915543, BE779799, AA916388, BE382761, AA865035, BE939222, N50993, AL520688, AL521080, BE220528, AI860359, BG056517, AW131802, AI190653, AI275591, AI344506, AW474472, AW514264, AA455565, AA778028, AI800505, AA507457, AI680195, AW073575, AI697212, AI281733, AI358109, BF338177, AA310163, AA569034, AI439397, AI223105, AI192504, H89931, AW474518, AI702754, AI306530, AL515383, AA780340, AA962569, N33970, AI640722, AI648658, AI027843, AA129371, H97399, AI149848, AI076446, AI307230, AA468595, AI034167, BF738694, AA702377, AA574154, AI521411, AI318623, AI318236, AW339142, AW002641, H91976, AA838539, AI201050, AA595616, AA121948, AA903661, AI751460, H97731, AA985583, AI187339, AI190982, AI272743, AI570034, AI241220, AI201051, AA630706, AA733158, BF530447, AI285804, AW075566, AA564947, AA824395, AA988310, BE336824, AI660327, H05594, AW005478, BE746413, H43255, AA770186, AI565899, AA954010, AI538322, AA834347, AI168654, AW027018, AW027007, H47354, AI538649, T78080, AA404403, BE744392, R10926, AA256307, N78844, AW058186, BE872300, T32251, AI434233, AI587232, H23226, AW075474, R49971, AA557416, BE797285, AA552823, AA639615, AW003702, R49402, AW071246, BE740753, Z41651, AA328237, AA330689, BF737283, BE744886, BF888375, BE747282, AI569327, F03400, BE781512, T77577, AI247621, AI696958, AA159291, BE275946, F04354, H26829, BE407239, F04350, BE744654, R85879, BE797528, AA418086, BE514572, AA876688, AA743506, AA661638, AA642063, BE782888, BF530048, AI540646,

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HFCDT67	837	598900	1 - 1108	15 - 1122	AI678110, BE542313, W92989, W63737, BE796166, AA700747, AI310223, AL048985, AI568014, AW029301, AI138485, AW957576, W92024, AA848007, AW206001, AA702694, AA524561, AI131258, T33467, N94203, AA953837, N65945, AI626115, AW193318, AI698317, AA884514, AI537373, AI186094, AA592957, AI266445, AI445962, AI932647, H57345, H71383, H71332, R53075, AW579222, AI673531, AW515197, AA219435, BF570399, BF813255, W92086, Z39671, F04566, AA484961, F03319, H16399, W90388, F03786, AI926750, F03560, N73771, AW248730, BF895002, AI540389, R09828, AA350622, AA627470, T11567, BF948109, AW957573, T11568, AI275154, BF839406, AV757372, AW167229, AV682737, AI631796, AW051059, BF811793, BF337541, AL036705, BF750879, AL514025, AW161579, AI918955, AI963193, BF724894, AI872154, AI267454, AL048323, AL048340, BE886728, AA928539, BF792440, BG036614, AI801535, AA641818, AI634224, AV681633, AW167385, AI267162, AI627714, AI890907, AI435999, AW583714, AI367539, AW183286, BG166654, AA824496, AI889311, AW029186, AA417129, BF971340, BG029053, AW083826, AI254226, BG113662, AI345745, AI002285, BF924897, AI559872, AL119863, AW162194, AA888196, AW075936, AA805708, AL514791, AW059828, AV703695, BF343099, AI349279, BF970652, BF672397, AW149876, AW131402, BF133371, AI537677, BF970065, BE965491, BG107995, AI799313, BF766528, BG105895, AI474146, AI783978, BG111846, AL514557, BF830213, AI432644, AL514093, AW022636, AI538764, AW827203, AV707510, BF793017, AI559752, BE908986, AW020419, AI702527, AW198090, BE889905, AW239367, BE018711, BF816042, BE904902, AI811192, AL513693, AI289400, AL037454, AI868204, AW020397, AI699865, AL037558, BG122969, BF726231, AA587120, BF341663, AV742848, AV755484, AI334884, BG109140, AW002807, BG179872, BE965599, AL079741, AW104141, AI340552,

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HFCET43	840	596813	1 - 1499	15 - 1513	BF308339, BF196845, BE645281, AI697946, AI701508, BF938975, AU123792, BE501025, BE327208, AA001054, AI630828, BE464355, BF110360, BE550841, BE327169, AA029754, AI694730, AA653284, AI373944, BE466972, BF062360, BE218446, AI807587, AA505335, AA029283, AI368824, AI338252, AW137842, AW772144, AA047380, AI961142, AW002608, N68126, AI612789, AA325134, BE674640, AA908203, AW613918, BF881940, AW888415, AI086156, AI199334, AW977250, AI859691, BF725456, AA827637, AI091220, R37166, AI580495, AA996221, R87728, AW771983, AA832401, R87790, AA731368, AA057038, BE294367, Z40515, BE937115, H30213, AA027146, AA313671, AA026587, AW977262, F01356, AA836355, Z44668, F01668, T20271, AI382510, F05103, AI567159, BF749413, AW518504, H55386, AI453262, BF448986, H25697, AL008630, AJ007583, AB011181, AJ006278, AL008630, and AL008630.
HFEAG55	841	838142	1 - 636	15 - 650	AW085552, AV721960, AI800802, AW964755, BF195133, AI149199, AI299757, AI951761, BF514106, BG255499, AI361910, AI858581, AI815225, AI279364, AI024659, AI379019, AI300980, AI494214, AW117663, AI421309, AW075432, AI362042, AI565510, AI431499, BG057105, N36589, AW964780, AI016747, AI364355, AI863790, AA193676, AI149643, R10154, AI765490, AI370265, AI864392, AI802120, BF961480, BF961798, AI351937, BE671413, AA426509, AA339807, AI051057, AI915018, N55650, AI758951, AI695894, AA252523, BE467963, AW192018, AA890717, BF802132, AA742330, BF002992, AW292018, BE077135, BE077141, BF773463, BF742654, AA424510, AW449275, AW444435, AA086016, AW863367, AA432239, AA845724, BF742650, AW768327, AW937843, AA427655, AA190566, AA428622, AA427558, AL050283, AY008763, AF175325, AY008764, M22873, and AF194031.
HFEAU63	842	790190	1 - 3638	15 - 3652	Y10260, AJ000097, AJ000098, U61110, Y10263, and AC016465.
HFEBA88	843	684297	1 - 800	15 - 814	BG036668, BF515570, BE390837, AA627726, AI912943, AI342401, AV700962, AW172798, AW173638, AI129792, AI582248, AA865610, N26214, AI138670, AA631127, AI478590, AI796654, W60801, AA004342, AA746153, AW173683, AI093228, AW662480, AI694264, AI096813, AI924698, AI126516,

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HFEB015	845	831772	1 - 954	15 - 968	BF689130, BG056459, AA533284, AV649556, AW665444, BF196508, AV649461, AW137985, AI143284, AV649480, AI193850, AI589661, AA516416, AV649385, AA308076, BF108697, AW630774, AW058552, AI916964, AI660733, BE313844, BF446289, R74430, BG179421, AI696702, R62894, AW627546, AA534096, W19329, R23105, AW951932, R74337, AI700044, R69153, AI147513, R69267, T23490, R62839, AI825100, AA952929, AA847446, AW452770, BF724807, BF357111, W25541, AA493147, AA746338, Z93244, AF177331, AK000192, Z93244, Z93244, and Z93244.
HFEB017	846	852218	1 - 976	15 - 990	AW473576, AI089774, AW451782, AW295271, AA749033, BE440149, AI949946, AI469900, N68539, AW172942, AI872021, AW243195, BE858872, AI337875, AI376876, BE327191, BF939700, AI363093, AI471556, AI767259, BF114982, AI683261, AW028130, AW976177, BE349166, AA974484, AW027661, AI683115, AW614790, AI421188, AI281604, AW239182, AI750006, AW235809, AI493809, AA455090, BF878349, W37813, AV650898, F09284, AW193169, AA703436, AV649714, AA526238, Z41088, AI700797, AW268135, T92246, AV662283, AI916032, T17498, F02060, AV650183, BF768675, F04236, AA935093, BE884109, AV649952, AA937505, AV649940, W37230, AA585284, AV649786, AV651140, AW976261, AW365708, AL137741, AK000272, AL162084, and AL157494.
HFFAE46	847	654843	1 - 954	15 - 968	AI525843, AU134358, AU143703, AU122314, AU142748, AU143634, AU122552, AU142526, AU118404, AU122678, AU143182, AV702937, AV721444, AU118696, AU135213, AU116922, AU122597, AV752243, AU133839, AU118907, AV704320, AL535790, AU134965, AU118792, BE874845, AV707121, BE891344, AV747715, AU117347, AU134096, AV721253, BE710600, BE710598, BE710612, BE710613, BE710592, BE710611, BF317298, AW063696, AU135988, BE892801, BE185796, AW067697, BE184361, BE185859, AU133568, AU133846, AW067704, AV750805, BE185546, BE714831, BE764066, BE182181,

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HFFAH01	848	843438	1 - 804	15 - 818	BE838902, BF313933, BE818631, BE261870, BF311058, BE259719, BF868463, BF314495, BG104932, BE780837, AL133622, AB020683, AK026040, AC022517, AC022517, AC022517, and AC022517.
HFFAL70	849	827570	1 - 1120	15 - 1134	BE270987, BG031920, AW861194, BE270805, BF334560, AI271358, BE696235, BE621115, AA481611, BE561424, AI498877, AI198288, AA465262, AI057236, AI247702, BE891267, BE513784, AI674176, BF342277, AA311602, BF058118, BF058975, BE857956, D80440, BE675122, AA832211, BE794500, AA287186, BE746961, AA481593, AA995035, BF746448, AI598177, N45729, AA633994, N49006, BE965771, AA471046, BE269536, BE257093, AA722748, BF083980, AI928488, R76498, AA682370, R10899, AI123580, AI660679, BF757641, N52008, AI871177, BF757640, AI699981, BG116718,

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HFFAV61	850	664486	1 - 1629	15 - 1643	AL535148, AL521480, BF849820, AL040801, BG037188, AI565306, AA627437, AW818710, BF836653, BF986676, AF218451, AJ242987, AB040024, AC009078, and AC009078.
HFGAB50	851	831761	1 - 2284	15 - 2298	AW960781, AV701528, AV704939, AI718385, AA194161, AW515737, AI092965, W95021, AI913641, BE858364, AI091443, AI887635, AW264288, AI803949, BE220033, BF208430, AI890134, AV707843, AA194162, AI912245, AI633634, AI797044, AI990153, AI923507, AW444611, AW194564, AW263237, AW750508, BE163535, AW603257, BE466735, BF676789, AI263123, BE466456, AI653647, AI000673, AW603255, AI421721, AW297148, AW022613, AA854289, AW577928, AA526976,

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HFGAE28	852	815658	1 - 1938	15 - 1952	<p>AV725435, AV725504, AV727393, AI907846, BF218040, AW956982, BE542598, BF977694, BF572088, BE468132, AA708740, AV728832, AW169353, BF326712, BF132210, AU151591, H98720, AA042992, AA946917, AW470321, AW168776, N27158, N40098, AA977047, N24288, BF087866, H84453, AA931683, AI922080, AW028573, AA962286, AI002410, AA975966, N32948, AI217571, AU120802, AW002803, H49993, AA042824, BE813424, AA902321, AI587226, H50037, R23147, BE964392, D81437, H84454, AI918223, R23148, D80972, BE827896, AW197023, D80971, AA368643, AI361667, AI093406, AU132377, AI335612, BF197651, AI433982, AI361488, BF696191, AA451836, AI633419, AW198090, BG179993, AI627893, AI439478, BG164371, AV735353, AI824746, AI097410, BF724691, AL119049, AW104724, BG179633, AA640779, AI282326, AI572787, BG257535, AI499263, BG058208, AW243820, AI758437, AW074993, BG252040, AW089572, AI312152, AI345735, AI280747, AI307708, AI567351, AI888953, AI270707, AI281837, AI632033, AI282281, AW075351, AI925156, AI869367, AW148320, AI784252, AI349614,</p>



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HFGAN63	853	708053	1 - 1062	15 - 1076	AI377407, AW973933, AU159464, AI591053, AI140794, AA085176, AA568840, AW059669, BE328386, AU142080, BF242387, AA085250, AL533715, AL525916, BE563312, AF036035, U90094, U73167, AF040710, U73167, U73167, U73167, U90094, U90094, and U90094.
HFHDN80	854	899438	1 - 547	15 - 561	AW851282, AI633514, R55630, AI362636, AI128140, BF592993, AW135344, AW962308, AA310802, AW408736, H53022, H70264, H57453, H61958, R96784, AW379281, AA343949, Z98044, AK024548, AL358252, and Z98044.
HFIAB78	855	581054	1 - 1615	15 - 1629	BG105077, BF343300, AA600827, AI693931,

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HFIAD23	856	581055	1 - 1004	15 - 1018	<p>BG107770, AV715978, BE646440, AW088260, AI378417, AW135410, AI056595, AI718083, BG006885, AA283099, AW963172, N51102, AW029474, AA215525, AA283012, AA405007, AA354669, AW440519, BE703054, AA658346, AA361159, AI523272, BE703053, AA432363, AV738434, AI749312, BF810880, BG254863, AA431366, BE703033, BE703056, AA215383, H56045, AW193227, BF246243, AI927339, BF217902, AA361614, AA490423, H56121, AW897467, H44885, AA872988, AA585483, AW384173, AL021391, AC006025, AL161665, and AC068528.</p>

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HFIK06	857	608176	1 - 878	15 - 892	N70441, H82414, AC012280, AC012280, AC027080, and AC027080.
HFICH70	858	608200	1 - 637	15 - 651	AI755153, AW301628, AI859031, AA595752, AI620158, AI810711, AI566356, AI813782, BF347007, AI004666, and AV653223.
HFIHQ57	859	564793	1 - 1256	15 - 1270	AI797677, BE672951, AI961683, AI809044, AI670057, AA280314, AL134524, AI142134, AL038983, AL037727, AL039643, AW970070, AW968190, AW970540, AL038838, AW969624, AL049018, AW969911, AW969625, AW970105, AL040617, AL044186, AL041238, AL047012, AL044037, AL039432, AL047170, AL040463, AL045684, AL040625, AW970020, AL047219, AW970069, AW970101, AL044162, AL040193, AL043467, AL040510, AW970107, AL040621, AL043538, AL047064, AL043496, AL040464, AW969631, AL038822, AL040149, AW969621, AL041133, AW969778, AL045817, AL041324, AL040322, AW968204, AL041098, AL040119, AW970118, AL038532, AL041096, AW970093, AW968212, AL047057, AL041163, AL040075, AL041159, AL038761, AW970079, AL041292, AL041358, AL037323, AL041296, AW968207, AL043677, AL041752, AL041142, AL040576, AL041346, AW968150, AL041086, AL040839, AL040529, AL046442, AL046330, AL041635, AL041197, AL043923, AL043814, AL043492, AL041602, AL045753, AL040294, AL043845, AL041233, AW970032, AL044125, AL047036, AW969632, AL044074, AL044064, AL041459, AL040553, AL041577, AW970119, AL037436, AL041730, AL040052, AL041523, AL043627, AL040472, AL041374, AW969664, AL046850, AL040768, AL041347, AW969626, AL037295, AL043848, AL041955, AL042135, AL043570, AW970076, AW969653, AL046994, AL040155, AL046914, AL041131, AL040444, AL041277, AW969634, AW969642, AW968196, AW970531, AW968148, AL039316, AL046392, AL040332, AL044272, AL045920, AW969848, AL045671, AW969691, AL041246, AL041168, AW969916, AW970082, AL044258, AL040148, AL045990, AL040128, AL040458, AL044187, AW969936, AW974805, AL040745, AW969961, AW969934, AL040370, AL044199, AL041051, AW969648, AL042898, AL040342, AW970050, AW970116, AL045989, AL039360, AL039744, AL037435, AW970108, AL045328, AW968340, AW970053, AL044274, AL040285, AL040571, AW969926, AW970074, AL079878, AL040091, AL079852, AL043941,

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HFIK29	861	852308	1 - 3131	15 - 3145	AU138469, AV716909, BG163567, BG163527, BG170625, BF980489, BE178432,

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HFIK29	862	873681	1 - 3181	15 - 3195	AU138469, AV716909, BG163567, BG163527, BG170625, BF980489, BE178432, AV716735, BF979914, BF240680, BE551691, BF593178, BE786226, AW589990, AI949699, AW439812, AI761215, AA442413, AW368119, BE349291, AI720751, AI738429, AI014558, AI718401, AA456668, AI936511, AW504466, AI138449, AI417764, AW294185, AA928184, AW291707, AU159395, AA011654, AI093245, AI926631, N42901, AI275013, BE833065, BE002856, AI160614, AI695423, AA514412, AA417303, BF000002, AA417266, AI748789, AI142755, AI384126, AI393546, BG029244, AA834342, BE006060, N29576, AI393619, AI264349, AV723459, H87850, AA580190, AI267574, AI566101, Z42935, AW196706, Z19172, BF222768, AA721082, BE833062, BF196129, AA035237, H68601, AA353662, R58033, Z28430, AW382262, AA033669, AA032214, BE004679, Z38653, BF082634, AW389677, AW080228, AA825290, BE973640, BF372358, Z39053, AA876544, AI686337, AW193765, BF855655, AI701478, AW169930, AI498485, BF197483, AW860322, AW613923, AI253379, AL515413, AL513907, AI433157, AL514791, AL514025, AI253335, AL515373, BF970652, AI554821, AL513977, AL513999, AL514627, AV714085, AL515235, AI267454, AL515019,

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HFIIQ27	864	600357	1 - 1248	15 - 1262	<p>AL523880, AL526567, AL523881, AV714521, BE614460, BF115119, AI652452, BF677913, AW188530, AI670868, AW590674, AW052133, AI817193,</p>

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HFIIQ64	865	532040	1 - 374	15 - 388	AA778543, AI744013, AA578430, AI299171, AA557697, AW089097, AI041019, AW973794, BE465017, and AC023924.
HFIIZ61	866	855939	1 - 394	15 - 408	AW613176, AW136055, AW138104, AI591362, AA779619, AA433926, AI582364, AI952215, R41369, AA860279, N63283, AI744142, AI813323, AI829647, AW627596, AI090820, AA931766, AA847457, AW008770, AI474355, AI953818, AA579572, AA972908, AA953913, BF476250, AW150211, AA527437, R71366, AW952538,

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HFIJD81	867	787129	1 - 3000	15 - 3014	BE891820, BE877361, BF691859, AV703423, BF343351, AW450725, AI954823, BE547668, BF696626, BE856864, BE504922, AI206998, AI539657, AI652766, AI685006, BE816880, AI444584, AI972324, BE349211, AW590568, BF243617, BE816952, AA431232, H17762, AI858288, AA420622, BF447277, AI770142, AW470028, BE501648, BF699913, AI339226, AI659081, AW002287, AW237706, AI066537, BF700168, BF034950, AV748760, AW961141, AI206121, AI458988, AI217941, BE349193, AI683178, AI873277, BF669263, BF241221, AA808766, AI354680, AW025666, BF747978, AI806994, AI042391, AI540790, BE816936, BE866740, BF575284, BF154431, N51372, H25193, AI868806, AA255648, AI217774, AA234712, AW002209, AA931879, AA768211, T75065, R43668, AV748600, AI003592, AA055392, AA694276, AW085015, AA774432, AA325988, H26228, AA601608, AA953397, AW243237, AI866871, H26229, AI675973, BG260865, AI351024, BG258283, F12911, AI910987, AW577556, BE936576, BE928123, R06027, AA055391, AA993120, AI863981, BE926642, H10137, AA508084, N74482, AA995033, AA702461, BE926623, T93544, T93549, F10515, T93526, BF082617, AV747581, AA348639, H24374, BG111260, BE891788, BF082624, AW995533, N90371, H82516, T93521, AA922697, BF817085, BF082599, BF082604, BF082567, AI867428, BF749052, H10081, AA644272, BF082610, R28235, AW118426, T92467, Z28870, H82517, R28499, BF082571, AI219826, AI868928, N68559, BF817485, R27979, BF892745, R28649, BE080776, H25850, AI570728, AI940542, AW577550, BF854436, F13797, AA587496, AA234780, BF335898, AI590227, N80491, AI280637, BG179099, AL513817, AL514457, AI564719, AL514791, AL514473, AL514627, AL119863, AI619502, AI677796, AA449768, AI569583, AL514919, AW151786, AI591420, AI874261, AI569328, AW983703, AI569975, AL513553, AI868204, BF813940, AI520809, AW029611, BF970652, AI670009, AI538716, AI270183, AI538085, AI932794, AW151136, BE966388, AW841772, AW983691, AW841754,

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HFIJF44	868	842713	1 - 1558	15 - 1572	AA190488, BE274830, and AC012531.
HFITA02	869	843763	1 - 1193	15 - 1207	AI086604, AI889202, AA236486, AA831749, BF507358, AA648506, AI274359, AA629133, AW974452, AI417199, AI572365, AW858522, BF084778, AL135012, AL134110, AW577199, AW601637, AL042523, AL134524, AL045327, AL045494, AW577201, BE927373, AL042420, AL042468, AL045328, AW577192, AL047163, U46344, AL042741, AL042655, AL045891, AR066494, A85203, AL133053, AL122101, AC068557, AC068557, AC068557, AC016394, and AC016394.
HFITF80	870	608210	1 - 825	15 - 839	BE614596, BE965998, AL518403, AA827529, AA459973, AI087944, AW511644, AI262749, AA232800, N72127, AW024377, BG163489, BF218761, AV732572, BE546071, AA151716, BF844727, AI860901, AW385738, AW188881, R93439, AW519183, AI245625, AW080566, BF885537, AA932980, AL527175, BE048814, R24470, BF998733, AW385734, AI131189, H17074, BG231761, AI760922, AI936546, AI765706, AL527102, AI762237, AI091262, AA132477, AI803134, AI554831, AI356264, AU122118, AW500854, AA045066, AL161968, AB002439, AB002440, AC009002, Z99943, AC011510, AL109797, AC004965, AL079352, AC005082, AC008044, AL023803, AC026449, AC022111, and AC010337.
HFIUK66	871	600358	1 - 1318	15 - 1332	AV682447, AL527133, AI971552, BE551017, AI676205, AI417129, AI811291, AI222275, AW772020, AI523493, AW473766, AI333097, AI147892, BF970461, AA429101, BF672193, AI819777, BF432030, AI765904, AA608984, BE047803, BF030905, AA278337, H01879, N58813, AA988624, BF695160, AI806770, AA928907, AI571486, AA428902, H43546, N75148, H01880, BF054981,

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0950083-091201

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HFIVB04	873	847075	1 - 612	15 - 626	AW118826, AV717127, AV701177, AA151563, AW953621, AI867993, AI831098, AW512279, AW072445, BF109880, AA149653, BF439394, AI803482, AW150792, AI377076, W79392, AI804017, AA937448, AI707481, BF679675, AA482606, AA157343, AA862490, AI753503, AA961039, AA357829, AI336627, AI332879, BG057764, F08889, AA834366, AA872967, AI565390, AA195364, R44897, T15482, H07932, T59940, AW079827, AW021169, BE815309, AA357830, BE185803, AI686852, BE926101, AW243705, BE007707, BE007712, H46250, BE926099, BF691373, BE932531, BE926093, BF327866, BF868489, N87369, AW089275, AI591387, AW188498, AI912434, AI950729, AI174394, AW834302, BF856052, AI640729, AL079799, AL046466, AI635287, AW088560, AI473536, BF793187, AI286256, AI538259, AA190341, AW151786, AI580984, AI540674, AW079409, AI500714, AI281757, BG113851, AI589428, AI537643, BF766529, AI872423, AI439452, AW195253, AI950892, BE896769, AI696714, AW198090, AA481033, AI635067, AI702068, BE875028, AI560545, AI687127, AI768496, AW193125, AI610446, AL513743, AL513991, AW238688, AI590043, BF811804, AI287233, AI633125, BF812936, AI698391, AI250646, AI538564, BE887982, AI915291, AW152182, AI536563, AI581033, AI889189, BG260647, AI225000, BG108239, AA853033, AI866469, AA001397, AI884318, AW162194, AI923989, AL037602, AI500514, AI254727, AI521560, AW051088, AI783997, AI921155, AI553645, AI559586, AL037582, AI582932, AI637584, AI252643, AW080992, AI799183, AI611738, AV723204, AI587121, AI963346, AV723062, BF812963, AW191844, AV728997, W74529, AV723772, AI918449, AW078712, AI591420, AW188840, BE011880, AI624938, BF892007, AW103928, AI690687, AI659043, AV722478, AV724569, AV723575, BE886858, AI471282, AI669612, AI569637, AA740450, AL039086, AL515191, AI890907, AI866090, AI524654, BF970652, AI309306, BF982059, AI670002, AI741158, AV681829, BE966968, BE393784, AI590227,

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HFIXC39	874	683053	1 - 1868	15 - 1882	BF509085, BF508563, AI967991, BE545098, BF507947, AI744531, AI738577, AW960980, AV727875, BF508476, AL528753, N63422, AA233823, AA410373, AI638499, AW590845, AW772416, AI432642, BF060690, AI271351, AI277639, AI033421, N95728, AA860819, C75039, BF059676, AI942428, R15902, BF825131, Z44853, H06078, R15901, AL514980, F03821, C75027, AA406241, H05789, AA233770, AA324820, BF891639, AI369482, R20426, R43312, R56002, T15883, AA936702, R56003, AI093681, R43546, BE885059, BE869916, T66528, AC008810, AC008810, and AC008810.
HFIXC69	875	704080	1 - 806	15 - 820	AV707831, AV707498, AV702098, AL528584, BF526682, AW961350, AW976056, AA452688, AL528583, AA931976, BF307226, W73580, W84825, BF087426, BF088508, BE048133, R83609, R69518, H91923, AA315530, R74244, AI924323, C04901, H92397, AA159260, AI183607, BF305252, AI760044, H28250, R62673, AI735451, R18017, AI129747, AI140660, H84664, N53738, AA486811, AI193753, AI830828, AW014478, R49760, AI818984, T64564, AI935272, BF339985, AW512778, AA714319, AA845346, AA706324, AI222888, AI277786, AI459968, W84778, BG056653, AI830812, AI813423, AI300302, AI277948, AW044333, AI359102, H24652, AW572999, AI743798, AW304003, T79349, AI624622, AI738948, AI370737, AA159182, AI559360, AI863873, AI092797, AI422835, AA487133, AA450054, N26187, W73561, AA911439, AA687821, AA992822, AA780967, R17923, T79779, BG236790,

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HFIXE39	876	844408	1 - 2471	15 - 2485	BF980303, AW291422, BG164721, BF576354, BF791038, BF667154, AL520922, BF577162, AW183085, AA524344, AW029351, AI989875, BE221681, AI564477, AI817885, AA442061, AU157307, AI583026, BE465574, AI161363, AV662318, T03807, BF132580, AW938747, AA019818, AI954473, AA595813, AW874254, AA158712, BF111496, AA018291, AA724417, H86273, BF241963, BG236023, AA995417, C04219, AW291584, AA923788, AA442163, F06863, AI285210, BF126297, AA612911, AW089761, AI648693, Z39949, R43382, R82340, AI888728, N49046, BE161118, AI038239, F06899, AI537206, BF669784, H22213, AI419353, H86638, R82389, AA122109, AI381375, F10884, N78562, AA152348, AA152349, AA384112, F03166, H86274, N62460, C03527, H22162, AI693072, BE544486, R25739, N48320, AW516366, AI657202, H86550, AI864140, R26585, AA282215, R25848, BF790963, N73714, R26669, AI051425, AW363960, R38713, AW393413, AI628704, R38347, AJ298105, U79296, U82328, AF001437, AF052166, AL138810, Y13145, AC002556, AC006480, AL049873, AC007617, AL117356, AL359694, AC000065, AC008733, AL136087, AC009946, AC009194, AC007163, AP000086, Z97355, AP001694, AF067846,

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HFIYP15	877	688044	1 - 1779	15 - 1793	N71063, W94295, N66037, H63245, AI568915, AA773642, N73616, BF367048, W02603, and AA907572.
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HFIZF51	879	532598	1 - 370	15 - 384	BE047852, BG168696, AL513977, BF526262, AL514473, AL513907, BG166654, AL513943, AV757018, AL513999, AI800453, BG031815, BG260037, AL513553, BE964741, AL514627, AI340582, AW827249, AL514919, BF342070, AV682011, AI433157, AV722452, BE964006, AW301409, AL121286, AL514015, BG180996, BG257535, AL038778, AL513631, AI800433, AI868831, AI433976, AV682222, BF885675, AW827228, BE965190, BE964633, BG250190, AI491852, AI590120, AL514691, BF816037, BF904258, BE966443, AL036802, BF344652, BF032768, AA640779, BE890007, AA572758, AW268253, BE964636, AW059713, BG179993, AW190042, AL513763, AI567351, AI349933, AW149925, BE048319, AW071417, AL121270, BF882343, AV757943, AV755668, BF970449, AW103371, BE048071, AV657079, AW827206, AW088899, AL042627, BF340323, BF727212, BF812933, AL036146, BG163618, AL513597, AI364788, BG252914, AL036631, AV733470, AV715263, BG036846, BF904244, AL037454, AW949453, AW073994, AI889953, AW238730, AV723953, AL045500, AI560012, BE876049, BF924882, AL036396, AW074993, BG110517, AL036403, AL514087, AI500077, BF885081, AI064830, AV681857, AV681987, AV715462, AV757455, AI312152, AI684265, AW235745, AW983783, AI349937, BE890041, AW129230, AV723772, AI499285, BG114012, BG112239, BE910703, BE964700, AI349645, AV729890, BG120816, BE966839, AI500553, BF133418, N71180, BG029829, AV681716, BE964708, BG112879, BF971016, BF343172, AI521012, AW089572, AI349772, BE966388, AI281773, BF984813, BG027280,

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HFIZM89	881	608211	1 - 485	15 - 499	AC022576, AC022576, AC036191, and AC036191.
HFKBA62	882	844485	1 - 1275	15 - 1289	AA340580, AW952852, AW966342, AW952839, AW950578, AW949500, AW966343, AW949498, AW966389, AW964468, AW964972, AW975618, AW973445, AW966330, AW964823, AW949645, AW964967, AW964532, AV702035, AV724520, AW950117, AW956413, AW956405, AV704548, AV718692, C14331, AV718489, AV719822, AW966399, C14014, D51060, AV650003, AV720150, AW973307, AW966333, AW949629, AV699550, AW960465, AV720729, AW966534, AW960921, C14429, AW966400, AV721386, AW955916, AV718707, AW966531, AW978634, AW966059, AW960483, AW959799, AW973541, AV705869, AW973474, D80522, AV727418, AW966332, AW959202, AW973488, AV720616, D80253, AW966386,

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HFKE35	888	829191	1 - 2045	15 - 2059	BE273403, BE795166, BE744215, BE868054, BE312867, BE273688, BE544018, BE313318, AW245889, BE872631, BE294320, BE273661, BF306931, BF304812, AW245631, AW953813, BF315669, BF309379, AI056337, BE939208, AA195139, BE264242, BE267034, BE312639, AA305944, AI494538, BE676067, BE858379, BF203661, BF317021, BF514526, BE336908, AL534401, AW996647, BF802886, R37662, BF195186, BF763790, AA946712, BF760929, F26367, AA563941, AA195288, BF763629, BF002442, AA480685, AA826333, BF763969, BF761832, T03732, BE736456, H25825, H23231, AI833314, BF762676, AI566930, AI886960, AI659737, AW887436, AA962629, AV683897, BE351010, AA587570, R13803, H63283, H23344, Z45455, T23741, AA364405, BG056976, AI871873, AW768872, AI589407, AA627562, BE348954, AA587546, AA196654, BF760372, BF925402, BE814372, N63583, N47375, N56991, AW663296, BF032010, AW841218, N94891, AI867532, AI659036, AI676007, BE939296, BF126064, AW934839, AI633213, Z24838, F18188, BE928622, AI978802, BG258277, AW843955, BF037600, AA465565, BE173888, BF734299, AI858496, AW873657, AI561228, AI811874, AA465211, BE938346, AA969445, AA196535, Z41159, AA627390, AL515043, AW058325, AL514869, BE905408, AI541056, AL037582, AL037602, BE075879, AL514773, AW118518, AL515035, AW983832, AI445829, AL514757, AW079075, AI554821, AL514799, AI802542, BE957870, AI866469, AI125884, AI613038, BF812960, AI819976, AL515225, AI624293, AL514939, AL513961, AI270051, AI798456, AL079963, AL121564, AI923370, AI627988, AI670009, AW051088, AL514809, AL514763, AI582932, AL514829, AI500061, AI868931, AW054964,

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HFKEU17	889	815554	1 - 1270	15 - 1284	AI952982, AI763168, AI660838, AI928149, BF001704, BF220025, BE795063, AI826139, AI765444, AW151260, BE856100, AI928803, AI675589, BF434312, BF437293, AW016232, AW206044, AI707756, BE673117, BE294373, AW055044, BF219948, AI160785, AW119208, BE855993, AI151410, BE256392, AI453079, AI570609, AI745590, AI953225, AW299857, AI934818, AI934809, AW170027, AI497791, AW245680, AW955915, AW248105, AI338449, AI149164, AI566894, AI364092, AI356695, AI936816, AI130953, BE045174, AW119167, AW249764, AA994955, AI200552, AI349345, AA719323, AW731845, AI741812, AA292919, AI500281, AA424495, BF940630, N95061, AI032009, AW273339, AW246013, BF431748, AI929071, AI886963, AI199833, AA745886, AI933218, AI219115, AA628027, BF478067, H95114, AI122835, AI186651, AI185503, AI055815, AA976326, AI039364, AA402224, AA872300, AA679099, AA902359, T71360, BF206406, AI915367, BE314768, AI672982, T54128, AI766496, AI801925, AI399731, BE857644, AA205205, BE045175, R59883, H18546, AA308947, C17926, AW672807, W38897, R21285, AI978660, T71522, R59884, R19531, T54221, AA205163, BF986273, R45375, AW016236, H18438, AI913709, C18579, C01271, AI525909, D51097, E13578, AR035810, AF079806, AF265659, AB020978, AF078078,

					AR035827, E13577, AR023865, AR023866, AR008382, AL161910, AL161910, and AL161910.
HFKEV77	890	850678	1 - 1274	15 - 1288	BE897614, BF128651, BE890073, BF966156, AI086059, AI192351, AI421846, AW341482, AL524969, BG120617, AI743446, AI191421, AI302685, AW662500, BF664312, BF055256, BF431998, AI569047, AI869738, BF114818, AW274556, AW406543, AA576425, AW162453, AI400077, AI286210, AI032331, AI073372, AI457696, AL524968, AA435919, AA236527, AI264013, AI025206, AI150824, AA747666, AI143814, AI126569, AW402014, AI291297, AI241221, AI097003, AW160443, AI992045, AA836680, AA935160, AW675361, AI221065, AA862308, AI347735, AI342201, AA490322, AA490310, AA847379, AW662869, AI074045, BF515982, AI525508, AI091667, AA165350, AW020703, AA164559, AA427895, AA532390, AI066462, AI342770, AI268127, AA650374, AA157009, BE122708, AV647213, AA476719, AA306892, AA034912, N92838, AA188818, AA428006, AA082259, AA938503, AA740314, F21881, AA034979, AI214417, AA456421, AW361280, AI537284, BE002719, AA621342, AA341034, AW373224, AI370587, AW373227, AA515191, AW991424, AV689851, AW393069, AI866755, AI972418, AA075842, AW875310, AW875261, BF743326, AI349589, AW373260, AW875387, BF819938, AA281132, AW875323, AW875373, R88195, AW875392, AW581565, BE122712, AW291939, BF107485, AA397692, AA102193, AW875322, AW991430, T56355, AA074038, AW674758, BE165950, AW576748, AW875390, AW580714, H80945, AV695253, T25464, AA969478, AI826601, AI889424, AI559371, T56504, BE694014, C02120, AA296279, AW197038, AV696342, AA975449, AA807386, N91910, AI468060, AA490408, AA490426, AA876641, BE763140, BF247727, BF246294, AI630442, BE222761, W24087, AA337922, W25063, AI750138, AA216134, BE969690, BF084850, AA188876, AA810617, BG058353, AA878689, AL110297, Z97876, AL035304, and M13095.
HFKFI15	891	775846	1 - 1966	15 - 1980	AU119584, AU137956, BG111200, BF674747, BE787633, AW195359, AU145890, AW022802, AW020540, AI819982, AW961791, AA977661, AW770239, BE551261, N40575, BE644653, AI285890, BF196126, AA424787, AA232742, AW084229, AA424381, AI453830, AI342983, AA424466, AA232201, AI023501, W94629, N25875, AW139831, W73917, BE541112, AW304880, AI216334, AA885880, AA776534, AA495846, AA865139, W77980,



					AA022618, AA022755, AW021261, AI261688, N25867, AA902429, BF222491, W94714, AW451610, H89575, AA551599, AA348051, AW451944, AA334694, N75774, AW263103, N22552, AI804844, AW975334, AI763387, AA688135, N40582, D56550, BE858880, D57248, AA886687, AW997570, BF034117, AF048693, AL034344, AK021858, AJ223298, AF045017, Z56386, AF078096, AL034344, and AL034344.
HFKFI35	892	740752	1 - 2487	15 - 2501	AA744431, AA745566, AA745387, AL355804, AL355804, AC012109, and AC012109.
HFKFK49	893	847077	1 - 658	15 - 672	AA868361, AI147528, AW749947, AI762033, AW085648, AA975510, AA404592, AA400922, AA743207, AI963027, AI758707, AI819637, AA633251, AA522600, AW190731, BG166967, H92066, AA708881, N67831, AA502328, AA922433, AV681567, AA837990, AI041274, AI934750, AI268163, AI273996, AW467658, AA281333, AI623609, AA594621, N68197, BE328143, H00632, AW300646, AW272517, T56696, AI912673, AA448008, AA834975, AA197151, AI028359, AA738380, AW275731, AU155765, AI459075, AA311882, BE042856, BE893053, H05791, AW275739, BF063959, BE812280, AA767466, AA442140, F03422, AA404724, W95613, BG231076, AI525746, BF592157, AW028865, AA393954, AI828252, T90855, H00712, F20545, R81602, BE047196, AA767781, AA878082, AA197136, F02982, AI362783, AI860741, AI525562, AL513974, AI096463, AA488413, AI983872, AI475554, BE217796, AL513973, C15612, AI095752, AI424596, BG169666, AA731032, AI362128, BE349063, BF436410, AI288194, AI884893, AI288209, AI983879, AI635329, AU157059, AA353859, AA323088, AW515086, BE048681, H27312, AI277954, F32271, BE206597, AI916422, AA570101, AI498619, AU154627, AI659141, AI631370, AA282628, R71757, AW194153, AI191825, AW024192, AI187149, AW299862, AI869106, BE646078, AU133255, AA282409, AA340550, AW151045, W95612, AI922109, BE717181, AW105372, AA283419, AW268681, F29206, AA083866, AA158846, AA157878, AA283417, BE041642, AI300605, AA448151, BE514693, AW770287, F22792, BE770895, AA040783, N80658, AA158250, AA159268, BE562544, AI140935, AI541533, AA262415, D20446, H92105, F23414, BE326434, AL137615, AK024347, AC007136, AK023442, AL137565, AF237776, AF125532, AK001730, AC007136, AC007136, and AC007136.
HFKFV88	894	732065	1 - 1933	15 - 1947	AU119437, AI126298, AU157282, AW952705, AU146650, AA884911, AA669075, AW237645, AA984931,

					AW207449, AW102724, T75092, AW873598, F10664, F13070, AA909557, AA323033, AW104892, BF438108, AW885975, R15207, F12792, AA122151, T75332, AU120638, AU137547, AA483610, AA736795, AA989534, Z42341, BE612612, AA039633, N88944, AA249408, T06701, BF697021, AA928139, BE833299, AL445216, AL137503, and AK001134.
HFKFV88	895	844371	1 - 2297	15 - 2311	AU119437, AU137547, AU120638, AW952705, AI126298, AU157282, AA928139, AU146650, AA884911, AA669075, AW237645, AA984931, AW207449, AW102724, AW901618, T75092, AW873598, F10664, F13070, AA909557, AA323033, AW104892, BF438108, AW885975, AA122151, R15207, F12792, T75332, AA483610, AA736795, AA989534, Z42341, BE612612, AA249408, AA039633, N88944, T06701, BF697021, BE833299, AL445216, AK001134, and AL137503.
HFKFV88	896	852540	1 - 2297	15 - 2311	AU119437, AU137547, AU120638, AW952705, AI126298, AU157282, AA928139, AU146650, AA884911, AA669075, AW237645, AA984931, AW207449, AW102724, AW901618, T75092, AW873598, F10664, F13070, AA909557, AA323033, AW104892, BF438108, AW885975, AA122151, R15207, F12792, T75332, AA483610, AA736795, AA989534, Z42341, BE612612, AA249408, AA039633, N88944, T06701, BF697021, BE833299, AL445216, AK001134, and AL137503.
HFKFX64	897	566835	1 - 765	15 - 779	AI202664, AC010798, AC010798, AC025291, AC025291, AP001203, and AP001203.
HFOXD49	898	844524	1 - 701	15 - 715	BF940754, AI401513, BG111423, AA487463, AA133266, AI701239, AA043576, AW327409, BE326701, BE062112, BE062269, BF853995, BE061936, W16422, N28532, W91969, BE504121, AI278980, T66914, AW370290, T66938, AW748370, AI298255, W57574, AA995721, F24877, AW275051, AA079778, AI085195, N28540, AW327410, W94061, R10981, AA129726, F33059, R10980, AA939310, H16161, W00522, T66913, BF090982, BF747280, BF742418, BE062265, AW179327, AI928681, BF746231, W05661, BE061928, BF195563, AW179320, N44541, AL119390, T66937, AA583255, BF747279, AW450450, W74739, AA076500, N69977, AI028229, AA716103, AA577006, BF195097, AI768308, AI936717, W47515, BF514989, AA479363, N98580, BE857708, AW366293, W94062, AA809695, AI651373, AA558361, AI686460, W01893, BF031714, AI826429, AI401817, W94916, AW025549, AI339854, AI192993, BF002474, AI313151, AI277446, AA838700, AI307403, AI340223, AI800219, AI186573, BE938453, BE938496, AV652634, D88153, AP000497,

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					AF189776, AF189773, AF189774, and AF189775.
HFOXEX28	899	847385	1 - 2039	15 - 2053	AL040396, BE745436, BG033729, AI970214, AW968783, BF001425, BF056754, AW967083, AW978802, AL042361, AI627368, AW006934, AI761270, AW963918, AW197157, AI862541, AV693555, AI340187, AL042362, AI015622, AW468251, AI568646, AI200936, AI697779, AW971816, AI223153, AV702723, AI952151, AU151630, AW516879, AL043628, BF873890, BF944070, AL045835, BE711307, BE695042, AI953773, AA428589, AL046277, AL046814, AI816703, AI921769, AI041069, BE711324, AW129408, AI366513, AW467398, AW008470, BE047438, BF001818, AV704704, AW264118, AA846767, AA782029, AL040343, AI341349, AW474488, BE711314, AI421029, AA873427, BF896220, AI304809, AI057266, AW474529, AI304805, AA400447, BF763086, AA609664, BF871799, AA587347, AA156779, BG015974, BE815956, AI125775, AW235441, AW661868, BE711330, BF941647, AI921814, AW514803, BE711312, AI143869, BF197632, AI217221, AI056766, AL041281, AW591727, AA781392, BE711327, AI718586, BF876098, AI580834, AA430496, AW439721, AA432308, AA483801, AA812737, AI624845, BE695050, AW135386, AA854897, AI888767, AI880143, BE244575, AI683105, AW612436, AW769182, AA992089, BF332890, AW959149, AA836232, BE042387, AA620321, AV684920, AI285738, H58450, H58451, AW514703, AI349079, AA633727, AA490952, AA026623, AA412382, BF764200, BG006830, BF880628, BE247785, AI057232, BE711341, BF765740, T59857, BF438261, AI038182, AA317624, AW769156, AA279111, AA704683, BF765737, AA861293, BF765871, AA076966, W03215, R63497, AA077670, AA236563, BE247145, AA490878, AA450019, AA335772, R96964, AA444157, R54767, AA076992, AA860422, AA443976, AI050016, AW272939, AW962237, BE246873, BF801214, AA452644, AA812875, AA626326, AA077343, BE694998, AW085650, AI880175, AA582318, AA428605, AW204628, AL041975, AA491063, AA441956, AA156848, AA429543, AI934149, AA379234, AA861629, AA827466, AA868549, AA449839, AI247201, BF764178, AA601475, BF765688, AA747785, AA077241, AI214163, AA083073, AI015075, AA703958, BF887502, AA077800, BF765466, AA703747, AA491139, AA813701, AA758933, T86447, BF765425, BF765060, BF358045, H00289, BF765739, AW873665,

					AI814279, AL040395, BE711329, BE711328, AA077738, BF765741, BF763079, T66045, BF763048, BF765735, BF765463, BF879667, BF763084, BF086230, BF886077, AA679693, T65286, AA393354, AI687824, AW613873, BF765015, BF757524, BG003313, AK024248, AC010507, AC005627, AL133216, AC012005, AC004987, AC006328, AC004916, AF109718, AL117642, AL137028, AC004842, AL035696, AC024345, AC024345, and AC024345.
HFOYH74	900	610085	1 - 382	15 - 396	AL135749, AL135749, and AL135749.
HFOYP02	901	608178	1 - 902	15 - 916	AC006500, AC006500, AC006500, AC006500, AL139145, AL139145, and AL139145.
HFOYR24	902	866173	1 - 1846	15 - 1860	AC008249, AC008249, and AC008249.
HFOYR54	903	743196	1 - 1476	15 - 1490	AI760199, BE882460, AW971436, AI742680, BF698242, AV731318, BF971287, BE869846, AW961699, BG236448, AW044708, BE620199, AI222419, AW384883, AU147072, AV708960, AA992199, AI862023, BF739779, AI263606, AU147071, AI955575, AI679289, AI867639, BG142174, BF084679, AI681988, BE091058, AA847842, AA731098, AA992130, BF378463, AA770202, AU147153, AI056034, AA810790, AI000365, AW961694, AI087795, AI420376, AI884600, AI679865, AI271912, AW592097, AA025657, N76379, AA909134, W80758, AI357730, AI284853, N68965, AW606827, AW971435, W80885, AA504113, AA083314, AA347116, AW608731, BF081285, AI244315, AI094541, AA668325, AA837327, AI809694, AA047545, H89025, AW591044, T97061, AW369791, BE180982, AU121217, AA347117, AA295114, AV757996, AA888598, H88801, AI806559, AW580764, BE160828, AI631507, AW130117, Z25156, F00393, BF735155, BF432720, C02251, Z41368, BF337008, AA947202, BF735713, BF735541, T96950, BF735781, BE707408, X98494, AC007881, AC007345, AC007881, and AC007881.
HFOZB26	904	608177	1 - 769	15 - 783	BF893037, C03987, BF833319, BF830751, AL138791, AL138791, AL138791, AL390735, AL390735, AL390735, AC016372, AC016372, and AC016372.
HFPBF54	905	703186	1 - 1886	15 - 1900	BE176501, AL041952, BE670036, AI719704, AI144217, AW629522, AI268472, AA417804, AI803718, R71447, BE256982, AI263817, H91913, R49445, R58864, T91697, T91709, H91860, AA417803, R71099, AI695381, R35927, T92459, BF852777, T92476, BF852281, AV656373, AW950609, AV704497, AV707088, AV707304, AW958028, AW953953, AW964752, AV725027, AV651920, AV704607, AV656903, AV694812, AV689410, AV707234, AW963745, AW955662, AV701728, AV701586, AW953797, AW954697, AW962444, AV707753,

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HFPBF54	906	854776	1 - 1886	15 - 1900	BE176501, AL041952, BE670036, AI719704, AI144217, AW629522, AI268472, AA417804, AI803718, R71447, BE256982, AI263817, H91913, R49445, R58864, T91697, T91709, H91860, AA417803, R71099, AI695381, R35927, T92459, BF852777, T92476, BF852281, AV656373, AW950609, AV704497, AV707088, AV707304, AW958028, AW953953, AW964752, AV725027, AV651920, AV704607, AV656903, AV694812, AV689410, AV707234, AW963745, AW955662, AV701728, AV701586, AW953797, AW954697, AW962444, AV707753, AV704785, AV727314, AV705909, AV705282, AV704124, AV726930, AW958124, AV726194, AV728715, AV709273, AV702372, AV727625, AV705195, AV724987, AW954902, AW956289, AV705246, AV702266, AV707067, AW949441, AW952410, AW959270, AW966389, AW957517, AW952460, AV708961, AV706734, AV706089, AV729076, AV652026, AW967052, AV703989, AV707798, AW949478, AW949330, AW951555, AV704234, AW963899, AV687102, AV726088, AV658332, AV725153, AW964585, AW960601, AV658751, AV705590, AV708156, AV702087, AW950443, AW950006, AV725545, AW957677, AV708505, AV708210, AV706417, AW952403, AW952183, AV649566, AV706876, AW949762, AW952751, AW956075, AV645936, AV709587, AV727130, AV707059, AW955723, AV725324, AV658084, AV692600, AV650315, AV659389, AV697880, AV727613, AV726010, AW952888, AV660258, AV708109, AV647789, AW959521, AW953807, AW956474, AV659294, AV727787, AV703146, AV686060, AV725745, AV660608, AV728148, AW951239,

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HFPBI93	907	853359	1 - 718	15 - 732	AL533287, AL533228, BE468193, AA725549, AA418015, AW205080, AI379483, AA418084, R41855, AI288916, AA148943, AA150644, AA142972, AA148942, H09995, AI216388, BF091972, T17400, BG005083, AL533260, AW374706, BF000233, AI380984, AL121929, AF029729, AC025094, AC025094, AC025094, AL139339, AL139339, AL121929, AL121929, and AL121929.
HFPBJ64	908	610263	1 - 788	15 - 802	AV708951, AV722228, Z40687, AW148652, R49695, BE698986, Z40095, AC021079, and AC021079.
HFPBQ55	909	608171	1 - 832	15 - 846	BF979960, AW262883, AI631301, AI560079, AI016151, D61640, AI868167, AV726514,

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HFPCCK22	910	827286	1 - 1420	15 - 1434	AW976645, BF058655, AA020827, AA001559, AA742593, BF445178, BF515186, AW204150, BE221193, AI168255, AA968420, AI652513, AA047791, AA017634, H38918, AA017540, BF477971, AA001502, AI916815, AA885114, N67942, AL161645, AL161645, AL161645, and AL161645.
HFPCM32	911	608215	1 - 747	15 - 761	AW872750, AA594157, AI821062, AA662117, AL046262, BF875954, AI085242, AL135357, AW962444, AV711465, BF342223, AC016716, AC005081, AC004983, AL136162, AC005537, AC004089, U85195, AC004966, AE000658, AC002563, AL353748, AL353574, AC073316, AL031311, AC020916, AC004965, AC008372, AC004685, AC007686, AL021977, AC005095, AL034451, AL049776, AC004686, AL022315, AC005522, AJ400877, AL121601, AL162272, AC011475, AL133355, AL035249, AC010605, AC002558, AC008474, AF038458, AL049576, AF001548,

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HFPCM36	912	608237	1 - 427	15 - 441	AW206578, AI613409, AA632129, AW590525, AA868188, AI290086, AA523958, BF061509, N36246, BE138761, AI991633, AW128970, AA588504, AA424728, AA970449, AA999886, R44311, AI682888, N34390, AI524502, AA426182, R66939, AA490930, AI874148, BF677903, AW162194, AK025228, AB040901, AC027514, and AC027514.
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HFPCU47	914	741049	1 - 1685	15 - 1699	AI818770, AV763657, AI821714, AI859834, AW503397, AI821785, AW238016, AW238278, AW819567, AL037910, AW963899, AW265393, AV704536, AV762957, AL048925, AA484143, AV706046, AA663966, AI810236, AI282661, AU120320, AA243452, AA494038, AV763418, AV759935, AC005291, AC067744, AL109769, AL133245, AL162831, AC025577, AL159158, AC011527, AC002091, AL137853, AC008623, AC006255, AC011495, AC004867, AC009087, AC026704, AC005409, AC003010, AC002347, AC000029, AC008395, AC005098, AC001228, AC006965, AC005839, L78810, AC022363, AC015651, AC010289, Z98752, AC004257, AL162458, AL391259, AC003695, AL121753, AC007542, AP000073, AC006540, AC006241, AC007404, AC005052, AC002316, AC004000, AL023807, AL391690, AC011455, AC008752, AC002375, Z68273, AC015842, AC006285, U52112, AF117829, AC004929, AL139100, AL138995, AC006440, AC007690, AC055740, AL359076, AC007055, AC005279, AC004840, AL021368, AC007021, AC005288, AC008764, AC003963, AB042297, AC008784, AF134726, AL031257, AC005261, AC005740, AL021940, AC002117, AL021707, AC009316, AD000092, AL049872, AL445210, AL049856, AL133263, AF003625, AC002528, AP001435, AL031680, AC002045,

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HFPCY66	915	825718	1 - 1598	15 - 1612	T70292, AI351398, BF525663, AW963450, AW275432, H94504, N58334, AA804177, AV683406, AA101744, BG152746, AI090377, AW021674, BF814446, AW963489, AA831426, AW272815, AL042667, AL042670, AI869797, R99253, AA525807, AI039257, AI797998, H59429, AI754926, AI433952, AW966064, AL036896, AW631267, AW151541, AU151751, BF880881, AI732690, H77492, BF970107, AW474825, AA676592, AI791659, BF816988, AA658443, BE328286, AW504667, AI224583, AA601376, BF876674, N55487, AI299891, AW961953, AI252005, AI254463, BF817996, BE244308, AI801563, AA199578, H72947, BF207643, AI572680, R23873, AI174703, AW338376, AA171400, AA218684, AI457152, AW403177, AA425283, AA180056, AW162314, AI275989, AA669238, AL157580, AA533660, AI360521, AI500645, AI732327, AI610814, AW975150, AU149405, AV717715, AA809125, AI927275, AA584360, AI754421, AW162332, AA584241, BF940118, AW501278, H40521, AC004056, AL035587, AL353807, AL035413, AC008753, AL138836, AC005527, AL080243, AC010311, AC009060, AL031295, AR004690, AC008264, AC005529, AC008738, AC005921, AC005914, AL138741, AC008519, AL031255, AL022724, AC008745, AL121890, AC006166, AC007406, AC005081, AL109963, AC018644, AB023051, AL358777, AL110503, AC008551, AC010458, AL445143, AF134726, AL035684, AC010358, AL035405, AC004166, AL137119, AL031311, AC004686, AL117382, AP000553, AL008582, AC004089, AC011811, AC005619, AL359502, AL158167, AL031186, AC005082, AC011475, AC008649, AC011495, Z74739, AL121829, AC004263, AL022302, AP000512, AC025593, AC008623, AC006487, AL109952, AC004257, AL023799, AF111169,

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HFPDE42	917	844402	1 - 2220	15 - 2234	BF057241, AI333004, AW071844, AW590483, AI362050, AI817927, H24166, AV702229, H05077, BE046035, T77638; AI656763, H11709, R21067, H00149, H11621, R25273, H24058, R46626, AI363814, F13239, F10840, N51303, AW139488, AX045769, D87458, A52255, AL358334, and AL358334.
HFPDE88	918	561939	1 - 1647	15 - 1661	AC068865, AP002833, and AP000839.
HFPDO25	919	636185	1 - 519	15 - 533	AW629050, AA703947, BF969989, AW291059, AI168832, AA917639, BF197527, AV730098, AV732325, AV731768, AV732165, AV730445, AV731026, AI336456, AW607747, BF970321, and AC004945.
HFPDP70	920	745433	1 - 2085	15 - 2099	AI908093, AW571493, AA528480, BG057491, AW265138, AW819626, AA493898, AV733328, H05073, BF918165, AA302980, AI582890, AW515448, AI633021, AI889356, AW517716, H10143, BF796375, AV702609, AV706237, AV764104, AI859946, BE151470, AI273107, AL078601, AC012155, AC004500, AC010719, AC005057, AC005192, AC005358, U62293, AC008812, AF165926, AC006452, AC008372, AC002558, AC002395, AL121601, AC004867, AC005280, AL162272, AL138996, AL135744, AL133163, AC004158, AL445220, AC005899, AC008543, AC004812, AP000359, AL157791, AC011479, AC004596, AL121655, AL133448, AC008747, AC011490, AC006312, AL049776, AC003101, Z83838, AC008482, AL022165, AL356800, AL132713, AP000555, Z98941, AC006390, AL121694, AL033529, AL050307, AC005179, AC021876, Z85987, AL096817, AC003029, AP001630, AL109743, AL109825, AL109804, AC006285, AL136981, AL158040, AP001753, AL139421, AC004125, AC002365, AC009311, Z97053, AL080243, AL031280, AP001694, AL034405, AL096701, AC005522, AC003103, AC011465, AC009516, AL033504, AP001727, AC010789, AC011495, AC010618, AC004813, AL139100, AC008474, AL022317, AL035072, AC000067, AC021016, AF152365, AC022137, AC002045, AL110115, AC006077, AC005098, AC002316, AC007225, AF001549, AC005971, L47234, AC007191, AP001712, AL136137, AL050348, AC007182, AP000073, AL136304, AC004996, AL354696, AC011455, AC009756, AC008537, AL031433, AC002544, AL135978, U52112, AL121965, Z95331, AL109797, AC004106, AL049576, U73638, AB023050, AF200923, AL136303, AL049829,

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HFPDR39	921	834441	1 - 1847	15 - 1861	AL041566, BG035375, BG180828, BG163499, AA477266, BE929508, AI656936, AI951716, BE311457, BF037608, BE304936, AI096374, AA477267, BG231493, AI927648, BE673235, AA292231, AA922034, AA479878, AI718425, AA824471, AW340634, BF221541, AA699300, BE218451, AA575922, AA443588, BF360701, AI141913, AW474476, AI150393, AW605006, AW605021, BE255147, AW474456, AW473924, AA399440, BF515641, AW016407, AA427523, AA812642, BF594363, AA293470, AI262030, AA723836, AA994091, W76034, AI985377, H49237, AA143496, AW977873, AI660111, R20962, AA873844, R06788, AA808474, AI918933, BF765377, T79352, AA143497, Z45236, F04128, AA503842, R01824, BE967737, T79783, AI361214, T39691, W72847, AW079858, AA987751, BF852682, R00061, AA430714, AI424488, AA293015, H49238, F08632, F01790, AI873138, AW235170, AA693978, R06739, AA548157, AW082809, AA421387, AA227223, AI867963, AI823640, R01094, R42744, AW050670, AA226870, BE408530, AL080046, AL080045, AV723825, BE257943, AA938181, AI524654, BE907712, BF997967, BF038138, AV697288, AI345471, AV682773, AI440260, AA928539, AW243587, AI688381, BG111673, AV691059, AW022636, AV722452, AA580663, AA808175, AV654374, AL040169, AW020397, AV693410, AI648494, AW020938, AI312210, BG112786, AW020710, BF999944, BG105895, AW188525, AV716359, BG029457, AI568061, AI499325, AV693523, BF911517, AV724898, AL047344, AW071412, AA641818, BF669663, AA767924, AI859991, AI829893, BE047833, BE890185, AI539766, BF871314, AW051088, AV735659, AI307494, BF813196, AL135022, AA587590, AV733745, AV704350, BE892572, BE965159, AV758453, AI799313, AW962455, BG178598, AL137675, AB033010, AC021016, AB041609, AF058921, AL117575, AL389935, AL137271, AK027213, A91160, A91162, AK026480, AL137529, Z82206, AF124435, AK026526, AK024538, AL389939, AC002472, AL031984, AL031732, AL445123, A12522, A93914, AK026927, AL022147, AL137562, L04849, L04852, AL138755, Y18680, AC025765, A08456, A31057, AL023657,



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HFPDX08	922	746379	1 - 979	15 - 993	BE906651, BG168467, AW376987, BG169652, AW958711, AA306076, AA742230, BE870689, AU123211, BF568828, D31182, AA287785, Z41515, D31041, BF794808, D31415, AW468349, AU154166, AA286829, BE837822, AV749092, BE207007, AW504168, BE261550, AA678950, AA742316, BF448904, AK022536, and Y10777.
HFPEP69	923	835459	1 - 1066	15 - 1080	BE882762, BG028974, AI653829, AI872423, AI638644, AI620864, AI470717, AI339544, AI370623, AV698290, AI345688, AW169604, AI584130, AI682798, BE393784, AI673140, AI678446, AI364167, AI569492, AI524179, AW117926, AV652792, AI540354, AI963564, AA187616, AI950729, AI653402, BF525423, AI439452, AW263355, AW151132, AW960389, AV726058, AI690748, BE963880, AW131282, AW083572, AW080920, AV706773, AI828676, AL515021, AW262557, AI085870, AW151974, AI955117, AI932966, AI568293, AW959543, AV706527, AI921155, AW020592, AI274438, AI479292, AW193125, AI570056, AI868680, AI457369, AW130362, BF680133, AV655577, AW949802, AI866469, AW006132, AW080700, AV702021, AI468970, BG163646, AI471282, AI678324, AI927233, AV702151, AI349482, AI288305, AI687944, AI874261, AI630928, AV728546, AI419826, AW955902, AW188489, AI284035, AW950443, AV707401, AI886440, AI610799, AW952403, AW952183, BF812960, AW959806, AV656903, AW955613, AI912437, AV661704, AI358271, AI499570, AV696106, AV697196, AW952751, AW956075, AV645936, AV709587, AW964421, AI932660, AV692600, AV650315, AW951263, AV659389, AV697880, AV727613, AV689111, AW958366, AV728157, AV655280, AV660258, AW956474, AV727787, AV659294, AV692345, AV686060, AV725745, AV660608, AV645906,

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HFRAU40	924	701986	1 - 941	15 - 955	<p>BF997753, F31888, Z84487, U52111, AC008636, AF002223, AL391114, AC006965,</p>

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HFRAY90	925	846839	1 - 1150	15 - 1164	BE899033, BG120848, AW966502, AW966507, AA625198, AI694815, BF195364, AI500232, BF919958, AI743042, AI911167, BE181109, AA055415, AI243766, H18528, AW102728, H19194, R21484, R42869, T82475, AI698700, AW889178, R13349, AI220530, F12457, R51593, AW838921, Z42677, AA374460, T74135, AV701292, BE515253, AA912360, AI262729, AA670423, AV701194, R40864, AA351347, F10078, BE064946, AW601295, BE064712, AW748985, BE181067, BE064846, AW601290, AW675397, BE064703, Z38842, BE698159, R56748, BF838736, N98984, BF909166, BE708894, BE181544, and AB041572.
HFSAY91	926	828067	1 - 1915	15 - 1929	AL521628, AL528516, BF515899, BG113479, AV699928, AV700260, BF057696, AL043137, AW965030, AI740780, AA126734, AW373579, AW373591, AW373576, AW373584, BE568049, AA128246, BE551028, AA743097, AW021039, AI718075, AI636513, AI168237, AA417895, BF035296, AI820671, AI523148, BE566100, AA972579, BF184317, AA056511, BE143218, AL517051, BE539734, AI266161, BF327352, AW810119, AI910565, AW383727, BE842409, BE000705, AI301473, H16907, AI392650, AI077577, AI301404, AI458525, AU126075, AI301411, BF591313, R91791, T95247, AW363658, BE550123, AI002654, AA342941, T96558, AW363694, AI732249, AA352683, AA482381, AA056398, AW022887, BE766054, BE842283, BF338892, AL521629, AL157441, AF232673, AF232674, AP000115, AP001717, AP000047, AP000304, AK001274, AF232675, AP000046, AP000191, AP000191, AP000115, AP000115, AP000304, AP000304, and AP000304.
HFSBC10	927	638315	1 - 1430	15 - 1444	AI733876, BF229235, AI733905, AA165024, AA343027, AA333314, AA165409, AC004957, U28240, and AF268594.
HFSBE94	928	600398	1 - 864	15 - 878	AW500684, AI755214, AI754105, AI754567, AA343182, AW576251, AV762633, AW474168, AV758870, AA502991,

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HFTAN11	929	638316	1 - 779	15 - 793	AL521344, BF526952, BF310898, BE547192, AW732904, BF975898, N98622, BE300749, BE276664, BF056070, AI185990, BE300908, BG179105, AW965897, BE304349, AI890468, BG118688, BE206140, BE205826, AI913167, AA604141, BE811563, AW189371, BE300932, BE205961, BE207713, AA707747, BE042853, AI049994, AI095206, BF664456, BF109771, AA399333, AA224759, AA194497, AW169124, BE811745, R68583, AA380668, R34696, AA358636, BE207811, AW402289, BE811632, BE207376, BF744678, N51433, AA180938, H51919, W07676, AA641400, AW401754, BG250719, AA304034, T35106, AA180815, AI743409, AA484892, BE811696, AA320048, AW962791, AL041375, AA935827, AV756663, AI521525, AW151541, AI572680, AI753904, AW974363, BE677037, AI090377, AW020150, AI568376, AI078409, AI733523, AA829565, AI310670, AW104161, AA831426, AW192419, BE328286, BE045167, AI289050, BF896847, AI003391, AA526542, AI251696, AW084173, AI926102, AI745116, AI160836, N52178, AI801563, R34803, AI025355, AA515728, AI890862, AL042667, AL042670, AW084445, AA916430, AV683406, AV762037, AI338575, T74524, AV761745, BE273825, BE206375, AW901945, BE392753, AI791659, AI613465,

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HFTAR27	930	566890	1 - 1427	15 - 1441	<p>AA430300, AA541688, AA776700, AA679037, AW664335, AA573270, AA126614, AL045796, BF435548, AI268236, AI926591, AW192904, AI963606, AI924827, BF516156, AI922590, AI032288, AI375804, AA705172, AW081541, AI800450, AA694514, AI130883, AA931725, AI270687, R59176, AI366906, AW058362, AI446542, AI683319, AA436891, BE049444, AI597744, N25288, AW453004, BF928886, W69578, AI911821, AI095665, AI130013, W69579, AA722782, AI587015, AI191864, AA398533, AA687634, AI476374, AA115447, AA554327, AI139766, AA676733, AW242281, AA886732, AA664356, AA358590, AA759328, AI565897, AW304844, H71919, AA916086, AA618576, AA042956, AA430199, AA363371, AI370031, BF445642, AA393105, AA135916, AI934183, AA135927, AI004140, AA042816, H44791, AA135926, AA813424, AI865731, R42647, AW956718, AA115446, R27785, AI857286, AI631988, AA678468, AW008428, AW075384, AI569918, AI918635, H44790, BF743669, AA601518, AA603858, H42641, AI745618, AI445766, BF885342, AI939990, AA682186, AW364938, BE926745, AI569374, AW029062, BF885678, C01947, BE769091, AI863382, AV712672, BF970652, AL514627, AL513999, AL514691, AW827290, BF814450, AI590120, BG179993, AL514205, AI698391, AL514097, AL513755, AL514791, BG029667, BG114304, AL514721, AW827206, AL514015, AL036403, BG023758, BE891942, AL514087, AL513631, AI358701, N42321, AL514473, BG027280, AL046944, AL513977, BF527014, AL037454, AV726125, AL513553, AI886124, BE879000, BF032768, BF338002, AI978703, BG122481, AW827289, BG170937, AW167228, BF970093, BF968151, AV682724, AI254727, AL513951, BG164558, AI590686, AL515413, BG029829, AI637584, AL513723, AI783504,</p>

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HFTAR30	931	801906	1 - 612	15 - 626	BE515299, BG116340, BF569814, W67899, BF909370, N80312, BF570324, AU117994, W84684, BE797969, AA433912, AI743869, W67643, BF475403, AI829728, BF032985, AI144528, AA019611, AI364777, AI865116, AA019450, AI347424, BE879334, BG153219, AA888618, BE881037, D81217, W37842, BE875549, AV689111, AA460448, AA648850, AV655758, AV709769, BE879798, AA458950, BE878868, BE874959, AA410313, BG034627, R56912, R55713, AV755230, BE876227, AA554077, AV705135, AV723801, BE873776, AA081407, BE874269, AV722749, AV710871, BE875679, AV727103, BE880000, AV702721, BE875022, BE898244, BE879931, BE880558, BE877897, BE877313, BE878969, BE874129, BE879486, BE908276, BF342434, AL119836, BG025259, AA724795, AL039081, AI287830, AA244460, BE880405, BE877380, BE881383, AA806676, AI524536, AA635387, AI498834, BE880171, BE873910, BE737068, AI207423, AA552550, AI022361, AA177050, AA746215, AV712023, AA565898, AA523066, BE877534, AV734388, AV711185, AV707414, AV710411, BE876255, AV716518, AV712842, AB007865, AK026993, AL132641, and AL132641.
HFTAS49	932	847386	1 - 504	15 - 518	AI086076, BF432976, BF110160, AI493530, AA573873, AA594551, BF967837,

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HFTBB50	933	610015	1 - 1816	15 - 1830	AL042566, AL042567, BF342759, AA705540, BF741970, AI075818, T11781, AW178995, R57752, BF755427, AW342065, AI751162, AW895386, AU121501, AV703560, AA644320, N71721, BF945606, AW192065, AI431434, AW104793, AI889566, AA832188, AI298061, BF931462, BF725029, AV730388, AW518798, AA054055, BF903504, AI537538, F13749, AA829564, AI205010, BE077301, AI002790, AA457655, AI499301, AW162288, C18550, R61498, AA012998, AL038498, F12561, AV703259, AV726885, AA700038, BF916850, BF792316, AI540840, T86119, N55515, AW794231, AW188986, R59805, H21488, S57132, M92642, AC004971, Y09781, AL050318, AL031229, U89337, AL031984, AL158141, AL137802, AC068629, AC068629, and AL355514.
HFTBL17	934	844488	1 - 1008	15 - 1022	W58428, AL038713, AW157413, AI858607, BE646447, AI685116, AI887321, AI818151, AI925647, AU157470, AU146974, AU145383, AI559442, AU148220, AI264673, AA767353, AW084901, AV726924, AA902828, AA932087, AI250812, AI819528, AI367384, AI924175, BG059728, AI817158, AI499286, AI568919, AA778304, AW139132, AA130476, BF681274, W58442, AI147839, AA189081, AW085676, AI811494, AL523955, AA659014, AA055654, AW962610, AF074627, BE165748, AW262471, AI453790, AI675848, AI921101, AI051341, AL133942, N24958, BE176566, BE728951, AW177120, BF689260, AI376984, AI082077, AW089655, BF963854, AA864823, AF063514, AI827133, AI983921, AA911409, AW177226, AA493998, BE385675, AA846188, AI733728, AI862874, AL521095, AI246569, AA130536, AA581433, AL044349, N64574, AI561208, AV719347, AA807609, N20521, AW074001, AI610326, W49501, AW102963, H20876, AI027421, BG235936, AW151307, BE409924, AI973178, AI984510, BF056069, BF576607, AA129986, AI801377, W85828, AA287329, BE044603, T16214, AW177231, AW177264, AW517766, BF339110, AW167452, N26540, AW177317,

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HFTCF02	936	603447	1 - 1063	15 - 1077	BE727281, AL079954, AI871484, BF939649, AA977155, AI986153, AI201815, N92783, AI480196, AW000973, AI885619, AI077487, BE702314, W20512, AW028046, BE702317, AA253315, AA083841, AW294969, R49408, AW294970, R88573, BG055697, AI422012, AI073594, AI590033, AW902325, AI434850, AW902399, AW902178, AI568640, H51195, AA083683, AI634066, AI636642, BE694707, AI440464, C20634, BF954752, AW589695, AA262340, Z41417, AW235874, H51227, BE830648, BF922738, BF933727, BE702341, D25246, and AB023142.
HFTCI85	937	664487	1 - 1295	15 - 1309	AW965008, BG109996, AW327868, BF677892, AI431303, AL046409, BF668217, AI284640, AI963720, AV710066, AV762098, AV760777, AA720702, BG249643, AI801482, AW303196, AW274349, AL119691, AW833862, BF311000, AF330238, AW301350, AV757607, AL046205, AI334443, AU147104, AW500125, AI345518,

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HFTCJ32	938	604911	1 - 896	15 - 910	AA601376, N68677, AI028148, AW419201, AV758849, AA595661, AA577706, AA493546, BF814446, AA526542, AI174703, AI307201, AW850448, AA584360, BF530611, AA573067, AW850670, AI040051, AI254267, AI224583, AW974932, AW072923, AA126450, AA502450, AA218851, BE139139, AL040054, AI251034, AW819125, AV759507, AW272815, AI432270, BE967607, AW964231, AA640305, AW833862, AA515046, BE042649, BE160727, AV761745, AA601712, AA084439, AL045077, AW855803, AA191418, BE160910, AI590442, AW502688, F23327, AA630476, AW270256, AI926728, AW303098, AA493245, AW956640, AL109952, AL121601, AP001711, AC020663, AJ003147, AC008555, M63796, AC003982, AL356747, AC005228, AC006013, AC006450, AL049870, AL008726, AL133370, AL499628, AL096776, AF207550, AC005540, AL022149, AC005180, AC021019, AC007676, AC008940, AC000090, AL023803, AC004263, U91327, AL158064, AC004673, AL031003, AC009429, AP000211, AP000133, AL008719, AL080250, AF003626, AC005703, AL139396, AC007782, AC010205, AL445263, Z93015, AL353759, AC020728, AC005412, AL035659, AC009477, U91326, AL031666, AL355392, AL163279, AL138717, AP000555, AC010553, AC008102, AC011495, AC008277, AC035147, AL034548, AL109797, AC011462, AC002558, AC005726, AP000563, AC007386, AL121586, AP000503, AF134726, AL031594, AC004752, AL023880, AL391114, AL135927, AL355094, AC011452, AL035404, AL080243, AC005175, AL022238, AC008264, AF165926, AL050349, AC006538, AC005800, AL121934, AC006026, AC009408, AC005841, AL137182, AL031296, AC011475, AC016995, AC009470, AC011489, AC023051, AC005629, AC000353, AC005049, AR036572, AC008044, AC006312, AL157838, AL136307, AC005944, U91328, AC006453, AC004230, AC008950, AC007739, AC017092, AC006285, AL354696, AL022726, AL160175, AD000091,

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HFTCO17	939	844354	1 - 2880	15 - 2894	<p>AL045473, BF431884, AI140765, BE972706, BF057636, AI459216, AI339227, AW263538, AI420525, AV701365, AI087821, AL043401, AW339511, AI093411, AI014944, AI225120, BE502305, AW003156, N29916, AI089704, AA418868, H29688, AL043402, AI057149, BE551584, AI801659, BG121613, R59033, T16292, AL045472, AA909464, AI564164, AA047289, AI003738, AA708671, AI357935, BE763755, AI492472, D81060, H11058, AW452762, AA418867, N42968, H11144, N67647, T10147, C16439, AI968166, H14499, D52435, AW235413, Z43681, Z38788, T10146, D81599, N71210, AI207179, AA011072, AW664807, R05561, F05878, AA361835, R14477, AW070878, H29601, R42294, W01096, N22008, R13657, R05458, R40831, R58984, Z41343, F02984, AI873136, R38503, H14500, H15191, Z45674, D57833, AI922184, AA011073, AA047150, AW800653, AI393698, AA765145, R30651,</p>

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HFTDF79	942	827459	1 - 1305	15 - 1319	AI473616, AI219165, AA912481, BF511109, AL531019, AL521214, AL521215, and AL536907.
HFTDK11	943	837382	1 - 2000	15 - 2014	BE276766, AL134367, BE276677, BG031728, BE276170, AW575719, AW953770, AW408059, AV749841, AA306122, AW517243, AA452973, BF244823, AI955807, BF841829, AI146484, AW956884, BF981210, BE727509, AI535996, R54051, C15893, H10862, BF841833, N78588, AA350297, AI336672, T08645, AW955577, AW900227, AI077512, R75990, AA226715, BF742525, BE670050, AA226714, BE560077, AI979320,



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HFTDU08	944	825715	1 - 1186	15 - 1200	AW969301, AA020943, AW135740,

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HFVGK67	945	569778	1 - 1281	15 - 1295	AV763460, AL041375, AA526542, AV712092, AW023975, AI065031, AW021674, AA584360, AI753131, AW501278, AI732690, AW979200, AA807704, AI890283, AI076729, AI547110, AI754257, AU146789, AI890297, AW338376, AI090377, AA171400, AA218684, AA199578, AV758849, AV762541, AI254267, AI114755, BF949151, AI921744, BE677164, H05066, AW439224, AI754421, AW419201, AA831426, BG003974, AV743067, AA640305, AA610644, AW962971, AW410409, AW410844, AA180056, AW504667, AW576221, AA084320, AI174827, AA828840, AI797998, AW272815, AI444575, AI174703, AA313025, AW022796, AI744199, AA533660, AI570067, AL121039, AI732720, AI702049, AW963552, AA595661, AW875184, AI754926, AA493546, AV759517, AI701898, AI636422, AV728973, AA524604, BG109302, AI003068, N26159, AI251024, AV732057, AW514844, AV729090, AI567676, AI828721, AW072963, AW265468, AV759022, AI312267, AW129188, AI572680, AA557945, AA493464, AV727766, AW243817, AU146999, AI733523, AW970856, BF812696, AI270280, AI751698, AA664963, AL036949, AA467855, AI002950, AL042667, AL042670, AV756264, BF589864, AI355246, AA132929, AW953437, AW148821, AL039436, BF592586, BF971234, AW850985, AW575808, AI792586, AI792498, AI345166, AI028148, BE244308, BF849260, AU120423, AA847341, BF913232, AI571094, AI860648, BG059139, AI025355, AW873417, AW008217, AV683668, AW239465, BF530611, BF882222, AU147226, BF725436, H62123, AA527633, AW960129, AA636077, AA601674, AV687027, AW510403, T26553, AI252611, AI744890, AW268793, AI679486, AL044966, AW238712, AA730530, AA182928, AW970588, AI609992, AV764119, AV734311, BE967607, AA469230, AI434103, AI819419, AI857834, AW023390, BG180320, AA935827, AW029626, AV651424, AW327852,

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HFVHD38	946	826709	1 - 2149	15 - 2163	BF569563, AI675601, BF448710, AI927569, AI021956, AW006374, AW471286, AI826018, BF671821, BF435308, AI890341, AI810654, BF570055, AW169258, BF431979, AW874655, AV707927, AI651209, AW953957, AV702209, AW019935, BF697787, BF476689, AI199843, AI972357, AL036457, AA065199, BE301851, AI088890, AA709124, AI148316, AI653895, AI128287, N51991, AI131110, AI370980, AI128288, AA121420, AA595022, AI050847, AI139419, AI097508, BE763321, AI089965, BE326981, BE074862, AA167466, AA973858, AW023165, AI131359, AW474345, AA121267, AI078524, W67469, AI073942, AI131119, AW513406, AW023176, BF589348, AA595425, AA773728, BE220409, BG002711, AI804337, N26805, AW021990, AA931243, BE868584, AW779991, AW149152, AW167929, AA514757, AW204894, AA016282, AA071473, BF894379, BG166813, AW768838, W42865, W02151, AI215875, BF439864, AW593630, AI769294, AA448616, AA953246, AI041690, AA065130, AA716632, AA569580, AI970871, AA027942, AA782744, AA971152, AA621469, N57486, AI332533, AA693418, AI240615, AI755001, AI092127, AI869057, AI217065, BE769303, W67470, AI491829, AA082338, AW393728, AA693916, AI282280, AI640197, F08289, AI129702, AW582744, W04784, R02486, AA043484, N39494, AW393723, AA297541, AI350453, W42930, N75482, N47632, W32485, R27136, AI274641, BE818086, BF038480, R40950, W05292, AA903449, Z41300, AA329606, BF592075, BE348686, AI383010, AA034469, R13439, AV749566, R26770, AA773671, AW779291, BE179292, AW393730, R26780, AA595506, R02379, N53823, AA365217, R26900, R25976, N52700, R25966, BF989312, AW885484, H24486, N75332, BE938236, BF373294, BE868728, BF832657, AW883620, AV734107, AL036403, D79864, BE764813, BG003969, AX015418, AR085071, AL137638, U69263, U69262, and

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HFVHY57	947	668240	1 - 1767	15 - 1781	A27272. AL527943, AI859873, AI983267, BF527837, AW084752, BE379489, BF966607, BF968196, BF346286, BE408031, BF969181, BE646637, BF663439, AI937146, AW269842, BE559693, BE378866, AI636312, BF966543, AW029506, BG253686, BE274313, AI825900, BG253907, AI480004, AW270025, AI690435, AI570528, BF343665, BF527783, AW117475, BE395472, AW368998, BE042796, BG180529, AI042400, AW269845, BE407139, BE396100, BG179461, BF032943, BG105433, AA578644, AA564672, BE869658, BG258589, AW131466, AA044734, AW090712, AA599800, BE384403, BE731264, AA446169, BE744757, AA044771, BF984013, AA461178, AI635620, AA514677, BG180310, BF035169, AA173605, BE386154, AW966012, AA443677, BG035902, AI142124, BG111985, BE548239, BF345094, AA460399, AA428883, AA864260, W81179, AA633023, BE547951, BE395184, BG180094, BF879756, AA461353, BE785225, BF196985, BF879794, AA205705, AA402421, BE792975, AI564370, AA429050, W37404, AI810147, AA325968, Z98487, AW369021, AI952017, AA835658, AW015114, AI076439, AW629544, AI937730, AA205653, BE408666, BF739996, AV747536, AW194284, Z98488, BE730238, AA668461, W81180, BE393825, AA351177, AA039954, BE222741, AI969418, N23409, AA447064, AI630732, AI079682, BE888557, AI263851, AI359382, AA402594, AW995937, AA617632, BE615693, T31122, BE396188, BF026949, W37405, BE301739, AI989457, H23697, R51671, AA150305, AI619836, AW794833, BE174030, AA508126, AI369376, AI341929, AI174344, AA677288, AW161955, AW089344, W32144, AA325344, AA617922, AA706091, AA071394, AI640430, AA223137, N49336, AA565119, AW903285, AI753022, H30742, BF953712, BE005888, BE793769, BE794790, BF590679, AI802564, AA666053, AA152304, AA503250, AA962225, AA434177, W81163, AA885005, T29269, AI300060, BE702686, R88568, BE702681, AW904934, AA223326, H43925, AA460336, AA535852, AA559164, AA314898, H40008, H39579, BF215656, T86570, R51583, BE836057, BF737685, AA035162, T07731, BF999695, AW972183, H30826, W31715, AW841019, AA216532, AA322419, AA040006, BF306540, BF344861, AA551193, AA909212, BE615528, BE734116, H00511, R01065, T81707, BF879864, AA130856, T86748, BE836058, T65293, AA130850, R01791, AI653234, BF908578, BE791887, N35196, H00462, AA402595, T92844, R85416, BE734622,
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HFVIC33	948	799524	1 - 2137	15 - 2151	AL537530, BE781682, BF795040, BG260472, AV659204, AV729548, AI480377, AW959985, BF691234, BE896631, BG164625, BG164528, AI807748, BF966883, AV652794, BF671950, BF795640, BF970073, BG252996, BE889195, AV720297, BG104774, AW772355, AI018612, BF240903, BE567091, AW957543, AV658474, BF243219, AW614429, AW951261, BF245573, BE893510, AI809957, BF790241, AI653144, AA599503, AI935034, BE048844, AU144039, AW966173, BF107546, AW963648, AA749197, AA806744, AW118943, AA165434, BE326915, BF573250, AA165435, BF055373, AI831713, AW612320, AW151823, AW402199, BE568631, AW168945, AI091546, AI126377, AW196694, AI913621, AI637894, AI126385, AW274249, BF571917, AA278205, N30857, AL534293, AI090502, AA316489, AI150166, BE869251, BF687642, AI693933, BF246053, BF966227, AI890335, AA193186, AA193185, AI199908, BF594587, W94775, AI379316, BF107210, AI554155, AW294126, N90509, AA478674, H94023, AA828459, AI751681, N41385, N25802, AA456732, AA830676, BE813719, AI911141, AA814674, AI188385, AI984395, W95280, AA232918, BF698308, AV659123, AA813896, AA976149, AA173573, BF431388, AA516002, AW956764, AA173464, AV645599, AI051758, BE277482, AW263465, AV719420, R65792, BF985816, R76680, AA173532, R76354, BE774528, BE774589, AA448079, BE246884, AA488083, AA360002, AI208162, AW020770, R65887, AA860433, AA487749, AI290535, AA455175, AA642382, AI436317, BF130658, AI695653, AI355349, R69310, N55978, AI263401, AW019892, AW021264, H38130, AW614719, AI278208, AI263409, AI332516, AA353820, AI417608, AW020399, W20156, AI272335, R63860, AI264027, R63861, AA193184, AA857629, BF985815, T94226, R25121, AI474726, AA664917, AI751680, R25122, T94135, AA385321, AV685642, AW370815, AV695312, AV683423, H85770, AA384109, R69311, AA983311, N36544, AA447580, AA372912, AA228110, AA365278, AA214243, BE768171, AA228018, BF673170, AA848085, AW370814, N36567, BF755066,



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					D20452, BF687977, AV713236, AA329991, BF130777, AA599502, AW271162, BE501321, AK025796, AK025760, AF220192, AL109939, and AK021464.
HFXAK32	949	638319	1 - 1815	15 - 1829	AI291718, BE699807, AI751557, R55888, R52001, H65731, T55784, H65732, AU118872, AV692983, T79985, AB001103, U59288, U59289, AL021154, AC010219, AL353748, AL135841, AL034429, AL117336, AL163249, Z93016, AC008008, AC008812, AC002350, AP001727, AC006948, AC011444, AC026165, AC006509, AC012320, AC012320, AC009119, and AC009119.
HFXAK59	950	831141	1 - 1567	15 - 1581	AW007683, BG031060, BE909849, BE883967, AW007688, BF666656, AW270557, BF056179, AI684083, BE858185, AI342393, BG149449, AI422174, AW000846, AA868851, AI284172, AI127472, AI660356, BE079717, BE566922, AA625440, AA648497, AI359618, BE885323, AI056219, AI052453, AI076657, BE812319, AW771357, AI078528, AA149565, AW512740, AI624932, AA305415, AA626185, AI560222, BE812221, AA213752, AA164473, AW966403, AA593394, AI292310, AA251766, W80427, AA169121, AA151645, W80761, W80850, BE172424, AA879218, W80557, AL529242, BF935231, AA832190, AA663292, AL529243, AA506885, AA169366, BE925927, BE274374, AA383427, BE645462, AW803042, BE939365, AI057371, AW886478, BE299307, AA661682, AW999159, BF816891, BF920681, BG010137, BF927251, BF361060, BG010139, BG004980, AW886477, AA171654, BE183451, AI143295, BE142714, AV699218, AW952432, AV662257, AV725496, AV662242, AV650031, AB033092, AC005539, AF086450, AL161954, and L27850.
HFXBI64	951	567419	1 - 1249	15 - 1263	AV760934, AV755065, AA187939, T47177, AA406427, AC022534, AL158201, AF152363, AP000261, AP000035, AP000100, AP001713, AL138889, AC006039, AC008482, AF048727, AC018752, AL162742, AC006150, AF235098, AC021752, AC009039, AK021423, AK025451, AC022407, AL035451, AL445984, AL139001, AC004381, AL121877, AL163853, AL355481, AL133408, AL008706, AL136358, AC004696, AL139824, Z84481, AC017087, AL121578, AC005014, AC012078, AC006475, AL353811, AF129077, AC009505, AF165147, AL163247, AC005774, AL354696, AL136362, AC018731, AL034548, AP001747, AC006458, AP001625, AP001626, AL022574, AC005341, AL139327, and AC011966.
HFXBL05	952	740753	1 - 1333	15 - 1347	AL045306, AA400002, BF769491, BF769486, BF895045, AA401433, BE967644, AI333197,

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					AW104957, AA044268, AI191898, F02965, R43199, R51890, F08892, AA861744, AA044168, Z43657, R20141, F05969, BE843275, F11229, F02214, BE937755, AC027066, AC027066, AC023152, and AC023152.
HFXBM52	953	737672	1 - 1263	15 - 1277	AI078409, BF674256, AV708876, AA836811, BG029528, AA515048, AA535937, AW502796, AC011479, AC004584, AC020904, AL136300, AC008760, AP001711, AL096701, AC011533, AL136971, AC011895, AC004876, AC018712, AL031283, AL031311, AP001610, AL352979, AC020917, AL122125, AP000252, AC008372, AC005412, AL137073, AC002404, AC010203, AL162430, AC005488, AP000134, AP000212, AC004134, AC004865, AC005829, AF031078, AC025594, AL049776, AC011491, AF030876, AL049569, AC027319, AC006101, AC008806, AL133228, AL353777, AL353653, AL391114, AC005102, AL022320, Z98752, AL035587, AP000502, AC002425, AC006345, AC004383, AL033529, AL353748, AC005236, AC027644, AL158830, AC005527, AL022165, AC002115, AC004686, AL009181, AC008403, AF064861, AC005231, AL096791, AC002301, Z98743, AL035086, AL121771, AC008745, AP001746, AC004840, AC010605, AL139343, AL133448, AL021155, AF001548, AC009756, AC002477, AF207550, AL080274, AL034548, AC005089, AC003108, AC007249, AF139813, AP001725, AL117382, AC005086, AL139353, AL163285, AC005180, AL033521, AC022436, AC008752, AL163201, AC005332, AC011514, AL022328, AC002492, AL117258, AC004882, AL024507, AC005911, AC009116, AL096814, AC006001, AC005952, AL031984, AP001752, AC007637, AL031289, AC024075, AP001726, AC004596, AC007366, AC073316, AP000553, AC005522, AC008623, AC005529, Z98044, AL031733, AC004034, AC011444, AP000111, AP000043, Z84466, AC007386, AF196779, AF053356, AC004965, AC011449, AL031985, AC007842, Z95115, AL078638, AC005756, AL031584, AC003666, AC005399, AC008521, AC002394, AC010618, AC006544, AC006130, AC018639, AL021391, AC020906, U95742, AC007014, AL050335, AC002119, AF024534, AC006241, AC025593, AC011465, AC007773, AL023881, AC006449, AC002288, AL080243, AC007405, AC007371, AC004967, AL450226, AC006483, AC003070, AL139150, AL133445, AL136097, AL163279, AL121585, AC004813, AL050318, AC002073, AC005971, AF047825, AF156673,

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HFXBR58	954	655949	1 - 1442	15 - 1456	
HFXBV67	955	748230	1 - 1714	15 - 1728	BF989441, BF873048, BF873055, AL532687, AL121240, BG035655, AA713837, AC006384, AC053513, AL031965, AC004147, AL157827, AC006984, AL133480, AL163248, AF227510, AC006972, AL359846, AC007102, AF117829, AL132668, AL008635, AL137013, AL161621, AC007488, AL109921, AC003083, AL008629, AP001671, AC008436, AC010348, AC069275, AL133261, AC005245, AL136128, AC018664, AC000356, AL157360, AL445195, AL109800, AC020943, AL138876, AL390027, AL136992, AL160211, AC017089, AF015720, AJ229041, AC008685, AC010132, AC078833, AC008083, AL023877, AL133396, AL158093, AC004242, AL096827, AL365335, AF240786, AP000351, AL121865, AC018765, Z84718, AC016955, AL049589, AC083861, AL354750, AC006515, AL132994, AL353132, AL122016, AC046130, AC009721, AL049871, AC008156, AC009949, AL034402, AL133286, AL133326, AL022719, AL359534, AL139382, AL049745, AL137160, AL163246, AP000432, AL035079, AC016617, AL035424, AP000745, AC073486, AJ006995, AL355052, AL035563, AC008170, AL133241, AP001670, AC023472, AC018832, AL136315, AC008162, AP001727, AC005181, AC007156, AC008833, AC008550, AL035604, AC021092, AC000114, AL133406, AC009510, AL020989, AC007163, AL049839, AL132990, Z78021, Z95327, AC022201, AC005539, U73509, AC000403, AL139095, AC004704, AL353614, AC005999, AL080284, AC005039, AL035454, AP000008, AP001435, AP000704, AC002526, AL022160, AF201337, AC007563, AF114156, AC007437, AC068974, and AC068974.
HFXBY20	956	603523	1 - 484	15 - 498	AA078411, and AC005522.

HFxcb70	957	603524	1 - 488	15 - 502	AI340792, AL160288, and AL158165.
HFxcI42	958	606806	1 - 1085	15 - 1099	BF754268, AA807745, BE048046, M78419, AI039161, BE206718, AL163280, AP000081, AC005157, AP000402, AL022164, AP001691, AF260225, AP000036, AL121852, AP000099, AC000004, Z73416, AC073130, AC020912, AL159970, AL160031, AC006992, AL356311, AC005152, AC004501, AL031311, AL020989, AC005699, AL390056, Z82198, AC005378, AC006305, AP000494, AL160253, AC017047, AL136501, AC007422, AL022329, AC018728, AC002990, AL365214, AC024083, Z86064, AC012611, AL391384, AL137100, AC008372, AL391869, AC020647, AF178650, Y10196, AC009600, AC002302, AL356782, AC007619, AL096803, AC008639, AC004815, AP001712, AC005531, AC004139, AC010854, AC004699, AC004609, AK022256, AL353605, AL121932, Z69734, AF265340, AJ229042, AC005878, AL356137, AP000466, AL354872, AC006368, AL138956, AL139824, AC005994, AC025809, AL121984, AL121963, Z93931, AC027279, AC007911, AC006377, AC009302, AL031431, AC002288, AC010972, AC008276, AC005723, AC004947, AC005572, AC021037, AC011248, AL132642, AL161657, AP000271, AL031733, AC068711, and AC068711.
HFxcL59	959	825713	1 - 1743	15 - 1757	BG168789, AI640519, BG025178, AA074939, AI470934, AA236647, X85715, BF327264, N87150, BE095168, AV699204, AL163279, and AK002177.
HFxcM22	960	589953	1 - 1312	15 - 1326	BG007627, BF366019, BF366011, BF366014, BF366012, AC005325, AC005325, and AC007431.
HFxcN18	961	581057	1 - 1223	15 - 1237	C15685, BF879678, BF436023, AI299358, AL041562, BE671252, R89180, AL036881, T02846, BE379085, AA843874, AA702308, BF875698, AA985136, AA805240, AA809663, AW183464, AU118990, H63852, AW166737, T47587, AW380579, BF935428, BF851009, AV756239, AL041521, AL516959, AA773359, AA594892, H61159, AI761656, H54493, AU146079, AW874038, AI494239, AW852027, AW838715, BE867935, AA007671, BF764614, M85355, AA636049, AA993226, AI524521, AA506171, AA581433, AA888161, AW264568, AA292582, AI095771, BF057316, C16629, AI922171, H62066, AI445677, AA524883, BF346542, AW994225, AW469195, BF732409, BF793196, AA152017, AA152091, BF842329, AI983921, AI240605, AI830346, AV686530, AA810895, BF876500, AU126821, AA879265, AI373103, AI334099, Z19142, AW768511, AW242735, AL043039, AI087235, AU150602, AA317710, BE143557, AI301451, AU145663, AV729637, AA403081,

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HFXCSS3	962	828903	1 - 1113	15 - 1127	<p>AU139728, BE731779, AL531040, BE408084, BE251297, BG248485, BE254217, BE409377, BF979449, BE387284, BE897877, BE251630, BF679842, BG015177, AI928962, AA313547, BE250909, BF797656, AA369919, AU127676, BF086881, AW675069, AU130281, AU136976, N75228, BE257623, BE148645,</p>

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HFXDB37	963	569805	1 - 1377	15 - 1391	AC018764, AC006953, AL137069, and AL137069.
HFXDI32	964	580193	1 - 1842	15 - 1856	AL392185, AC011845, and AL355536.
HFXDJ43	965	560641	1 - 1544	15 - 1558	AV699147, AV699137, AV699246, AC021339, and AC018604.
HFXDL76	966	821571	1 - 1844	15 - 1858	AI114873, BF947415, AW796558, AA378110, AI350172, AW905186, AI018020, AU157357, AI016561, AC006017, AL353133, AC005613, AL160401, AL022146, AC002386, AC010979, AC010235, AP002022, AP002023, AL121949, AC012150, Z99297, AL031668, AC022203, AC010726, AL136180, AL365367, AC013737, AL390121, AC007649, AL079341, AC017020, AC018359, AC007317, AC009318, AC017016, AL022143, AL159986, AL159977, AC006998, Z68289, AL391358, AC008736, AL121879, Z93019, AC010723, Z84477, Z69724, AC007972, AC010389, AC006370, AC004534, AC023344, AC003087, AC001178, AF244132, AC060232, AL161730, AC035147, Z84475, AC005319, AC010135, AC011749, AL121969, AL034371, AC013406, AC010080, AF222856, AX033939, AC010154, AF222854, AX033938, AC009239, AC004006, AF042484, AC007284, AC006320, AF222855, AL355530, AL031679, AC017019, AC007444, AC010104, AC007042, AC003983, AL035086, AC007967, AC004253, AL121963, AC022517, AC008982, AC010153, AC016728, AC006366, AC025735, AC006983, AC006338, AC010088, AC068719, AC016698, AL031274, AC006386, A60172, AL034375, AC009233, AC010879, AL031388, Z97198, AC078847, AC004617, AL136531, AP002026, AC083860, AC003682, AC003001, Z82216, AC007744, AL133319, Z82203, AL157756, Z97181, AC009530, AL356787, AL358293, AL390759, AC002463, AL160053, AC004470, AC003969, AC024600, AL121654, AC008772, AC002524, AC006367, AL031650, AL031285, AC002123, AL008710, AC008109, AC006017, and AC006017.
HFXDM75	967	638171	1 - 1746	15 - 1760	BE092468.
HFXDO18	968	638172	1 - 574	15 - 588	BF959048, BF959331, BF959346, BF960991, AL137125, and AL356584.
HFXDP44	969	590269	1 - 1439	15 - 1453	AV761689, BF346320, AL138254, AV709806, BF828714, AI679002, AL042906, AW188427, BF826830, AW131249, AL135377, AL138265, BE897079, AA613954, BG260565, BF816106, AA515250, AI457389, AW962035, AA613257, AL042905, AU147226, AA577824, BG056362, AV761286, AL044489, AL046746, AW089861, AU148047, AV764490,

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HFXDR08	970	621342	1 - 761	15 - 775	BF353528, BE168995, R75771, AI830390, AI619997, AI252554, AI446464, AI017024, BF854876, AV763354, AI358571, BF872655, BE243412, F37169, AI471462, AI499134, AI921476, F23205, AW338086, AV710066, AW302450, AI286356, BE327924, AA557686, AA177061, AA886584, AW504326, AI628288, AW833903, AV761925, AW168342, BF887156, AA483034, AA340747, T08638, BG007652, AV764241, AI439360, AW833898, AW504669, AA365302, AI370878, AV763714, AI064864, AI654746, AI590689, AI590958, AW272758, AA626404, BE003190, AA364456, AA349366, AW498486, AA491762, AW820914, AW021583, T40077, AV762098, N41375, BE327091, AA664899, T06783, AW872601, AW088224, T07623, F25867, AA503473, AI287451, N29941, AI251021, AI049649, BF592200, BF759504, H02631, BF196738, AA657533, W79504, AW835607, AW022379,



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F02760" E8005660

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HFXDR28	971	621300	1 - 810	15 - 824	AA258852, BF751949, AW193265, AL045077, BF475757, AI350211, AW338021, AI431303, F02412, AI619997, BF925233, AI688846, AI814735, AI754658, AV710066, AI591118, AI962050, AW438643, BF526831, AV760774, AI061313, AV764307, AU144917, AW193432, AV759382, AI061334, AI627917, AW238341, AA649642, AW261871, AW513015, AI345654, AI472453, AW975425, AI623764, AV728425, AI289067, AI347810, BF241967, AI720141, AI934307, AP000359, AC011470, AL049766, AC002395, AC005694, AP000212, AP000134, AF205588, AC005527, AP001711, U91322, AC006050, AC011504, AP000030, AC005529, AP000251, AL022323, AC004971, U18398, U57005, AL158091, AP001728, AC005995, AC007285, AL133174, U85195, AC008124, AC008050, AE000658, AL121891, AL132639, AL080242, AC005089, Z93016, AL035681, AL163248, AC005037, AC015651, AC005291, AC011811, AC002350, U96629, AL049759, AC004895, AC007956, AC010363, AC008115, AC011495, U18392, AC005282, AC006312, AC005914, AC008379, AC008265, X55931, X54176, U57008, AP001717, AC011480, X55926, U57009, AF053356, X54180, U18391, U57006, U18394, X55925, U18390, X55932, AC004858, Z97987, AL135787, AC005840, U57007, AL117381, AL023807, AL096773, AC027319, AL035450, AC008745, AL132825, AL096701, AC006328, AL021707, AC005087, AC008764, AC002531,

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HFXDR28	972	873859	1 - 1284	15 - 1298	AL525841, AL523788, AL530205, AL528084, AL530647, AI741904, AW246206, AW249939, AA631248, AI262225, AI076571, AI379987, BF760075, BE791843, AA747742, AW182741, BE791484, AI039409, BE797194, BE304619, BG008706, AI266555, AI470348, R08484, AA316496, BE246277, BE243727, AA034425, AL528085, BE896428, AA628030, BF837752, BE243741, AL530648, AA053916, BE273715, BG111251, AL530206, AK026518, and AC023133.
HFXDR47	973	846477	1 - 1794	15 - 1808	AU122654, AW130302, AI438933, AW974090, BF330789, R54685, R54684, AW177869, BE140949, AI791659, AA676592, AA493546, AA425283, AV683406, F17895, BE043339, AA533660, BE328286, AI061313, AA693484, AW020094, AA393767, AW021399, AI049643, R23873, BG152746, AA493245, AW474825, AV695953, BE182951, AI174703, AW238242, AA527633, AA515924, AW089625, AI753887, AI797998,

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HFXDZ03	974	846323	1 - 1335	15 - 1349	BF980385, BF980158, BF930735, BE156613,

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HFXED33	975	823197	1 - 1939	15 - 1953	AV699098, AV699182, AV662242, AV699223, AV699247, AV662272, AV699250, AV662248, AV699123, AW963961, AV645788, AV699203, AV662247, AV662223, AV662257, AV699170, AV720500, AV699136, AV699125, AV699199, AV699118, AV654326, AV662167, AI557018, AV699167, AV699153, BG141322, AV662149, AV699197, AV718896, AV719551, AV699139, AL080315, AR092424, AR070327, AR001481, AL359824, AL359827, and AL080315.
HFXEE88	976	838822	1 - 1618	15 - 1632	AW104739, BE769411, U80017, AL031666, AC011460, AC004149, AC004694, AL356778, and AL356778.
HFXGR32	977	534607	1 - 1349	15 - 1363	AW502949, AI570943, AA262752, AA779783, BF991881, R92640, AA219098, BF991882, AW408063, AI862716, AA526193, AI978712, BF057326, AW275719, BF026590, AI377413, R98967, AW977608, AI580707, BE676754, BE079466, AW965157, BE079585, AW769291, AI028510, AW157005, AW972802, BE302658, AW472872, AA992126, AW472847, AW576211, AI216998, BE182951, T40848, AI929796, AV764104, AI471691, AA635433, AL133950, AA657835, AW193493, BG060107, AA302970, H79308, AL009174, Z85987, AC083866, AP001435, AP000704, AC005988, AP001727, AL442167, AL163285, AL133380, AL031390, AC011450, AC005598, AL132794, AP000243, AP001709, AP000203, AC007400, AC009154, AC004518, AC007365, AC008795,

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HFXGT51	978	638174	1 - 1288	15 - 1302	BG179552, BG178837, BG177982, AA599080, AW304699, AA904211,

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HFXGW16	979	825701	1 - 1216	15 - 1230	BG141322, AV648653, AI557018, AV650903, AV727824, AV662196, AV699236, AV699250, AV662248, AV699144, AV699219, AV699200, AV699247, AV699182, AV699224, AV662272, AV662167, AV653163, AV699223, AV645788, L27850, and AL133538.
HFXHC15	980	608243	1 - 347	15 - 361	
HFXHI33	981	874255	1 - 1589	15 - 1603	AU120416, AA604995, AA857812, AV695478, AW026305, AI421950, AI499094, AW516301, AV743462, AA713705, BF816967, AA916430, AI890324, AA491955, AW084445, AA169245, AA443390, AA599080, AI282479, AI419337, AA995373, AI361090, N40092, BE744242, R89525, AW167154, AI590404, AL096821, AC004824, AC006457, AL109921, AL133448, AC011559, AC005519, AC011514, AC002470, Y14768, AC018719, AC002425, AP000505, AL353701, AC010605, AF196779, AP001718, AC011473, AC008569, AL022476, AL356379, AC007055, AC022436, AC009060, AC005841, Z93930, AL031848, AL136295, AC008753, AL138756, AL050348, AC007957, AF002223, AL121658, AC004867, AC006538, AC004971, AL117186, AC004181, AP000152, AL033529, AL133289, AL136981, AC018751, AC011479, AC018663, AC004878, AL022238, AC005015, AC018720, AL159997, AC005480, AL050335, AC005071, U96629, AC010422, AC004821, AF196969, AL445248, AL034380, AL109627, AL157756, AC008752, AC009228, AC006329, AC003007, AC008521, AP001610, AC009331, AC008745, AC005632, AC005736, AP000501, AC005037, AP000558, AC006079, AC005081, AL163285, AC005666, AL133288, AC007850, AC002301, AC011895, AC005726, AC053467, AL035659, AC020913, AC018682, AC007731, AB016897, AC010618, AC005500, AC005484, AL109798, AC022392, AC016025, AC019171, AC011455, AL035079, AL137073, AC005778, AP001695, AC011811, AC012442, AL353812, AC008482, AC005703, Z95152, AC011442, L44140, AC008134, AP000359, AC005236, AL109743, AC006511, AC003080, AL021154,

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HFXHL21	982	581363	1 - 1633	15 - 1647	AI357976, AA665645, AW732188, AU158326, AA653612, AW576389, AA862227, AA501614, AV761719, AA601680, AI246567, AA532594, AV759337, BE139358, AI288700, AC017006, AC006312, AC074338, AC022816, AL008629, AC027319, AL132639, AL138836, Z94801,

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HFXHL83	983	564658	1 - 1483	15 - 1497	AV652810, AV662247, AV699269, AW967166, AV719565, AV699203, AR001481, and AL357568.
HFXHM49	984	825693	1 - 1552	15 - 1566	AV653163, AV662272, AV699182, AV727824, BG141322, AV699098, AI557018, AV699223, and AV645788.
HFXHM93	985	858720	1 - 1768	15 - 1782	AI017251, AA559166, BF845126, AA579427, AV763550, AA704393, AI499954, AA650447, AI336637, AI272649, BF805088, AI114733, AI133552, BF917346, BG059972, AW873261, AV729669, AV761081, AW969743, AI343144, AV763026, AV763058, AV754399, AV762430, BF724838, AA904211, AV761189, AA713724, AW504224, AI619742, BE178489, AI282629, AF067845, AL117329, AC005744, AL138787, AC000038, AC000046, AF029308, AC006362, AL032821, AP001759, AC010134, AC007022, AL137145, AL121757, AC006965, AC007619, AL139109, Z99716, Z98946, AL008725, AL139377, AC004849, AL133480, AF117829, AC018647, AC007376, AC007011, AJ277546, AL137191, AL359846, AC025442, AC083875, AB003151, AP001751, AC011450, Z93784, AC008812,

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HFXHN89	986	786196	1 - 1392	15 - 1406	<p>AA533333, AA581903, AA631507, AI254615, AW407578, AI076616, AV755677, BE393367, AW168433, AV755070,</p>

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				AI768952, AW271904, AU144036, AC006028, AL122001, AC020663, AC004675, AL049795, AC025588, AF129756, AC011491, AC007364, AC008623, AC009060, AL023494, AC005694, AC004962, AC009086, AC006130, AL353807, AC009311, AL132987, AC004647, AL157838, AC016025, AL049839, AL096700, Y18000, AL136223, AF053356, AC018720, AC005808, AC008745, AL356299, AC005529, AL139099, AC005899, AC003006, AC022493, AL049709, AP001759, AC018637, AC011484, AC000041, AC005527, AC004213, AC005187, AC003692, AL022723, AL022238, AL049692, AP000556, AC003098, AC007845, AC006486, AL137853, AC007620, AC003083, AL138690, AC015651, AL136992, AC004927, Z93015, AL050343, Z74739, AC004130, AC005261, AL096712, AC007957, AL033383, AL031289, AC005071, AC005288, AL035451, AP001714, AP000047, AL121749, AC002350, AL109758, AC007541, AC000353, AC006285, AL133245, AC008569, AC016026, AC002300, AL109984, AL020997, AC018644, AC006925, AC005180, AJ295844, AP000115, AL137119, AL137017, AL133284, AC011479, AF088219, AF064857, AL133238, Z93930, AC007688, AL109935, AC009075, AC008760, AC005740, AL022316, AL133448, AC007842, AF244812, AL358372, AC007432, AC027644, AP000505, AL121655, AC007298, AC004796, AJ246003, AL138717, AC012442, AC007097, AC008736, Z83840, AL391839, AC004890, AL163281, AC005844, AC011811, AC009506, AL391097, AC005523, AL137073, AF047825, Z93020, AL158046, AC002059, AL137039, AL050341, AC005229, AL139286, AC018719, AL157713, AC007358, AC005594, AC002091, AC007722, AC004771, U95740, AC005088, AC004491, AC004884, AC005995, AL049570, U78027, Y14768, AL049830, AC005921, U91321, AC005412, AL137159, AP000432, AL121574, AF124523, AC003682, AC008403, AC006023, AC004583, AL135927, AC007227, AC005209, AC004895, AC011497, AP000555, AC007383, U85195, AL450224, AL021453, AC004646, AF010238, AP001670, AC006139, AL096702, AL136305, AF017104, AC006536, AC020916, AP000112, AL354720, AC000134, AE000658, AF029308, AC005052, AF265340, AC011451, AC016831, AL135818, AC003110, AC069026, AL022315, AP000504, AC007226, AL122006, AC007731, L44140, AP000237, AL136362, AC005821, and AC009087.
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HFXJB21	987	743165	1 - 1297	15 - 1311	<p>H65086, H65132, BF725844, AW023111, AW805539, H73550, AL037714, BF854308, AA912287, H07953, T74524, AW805547, BF691892, AW438542, AI358712, AV763026, AV763058, AI613389, AW407578, AW973992, AI054030, BE142845, AI054419, AA704101, AL038936, AA829036, AW301771, AW029515, AI792578, AI380617, AW979191, AI687343, AW833047, BF678990, AW873261, BE968744, AI801482, AI445934, AV709273, AV757289, AL138996, Z83840, AK024201, AC005821, AC007842, AC007938, AL121653, AC007597, AL118502, AL138735, AC009228, AC006115, Z98941, AL136170, AC007298, AC004099, AC007055, U91318, AC008745, U62293, AC002350, Z94056, AL162742, AL132639, AC004841, AC011469, AC005081, AC011239, AC009032, AB020878, AC011480, AC007488, AF001549, AL139041, AL353812, AL121900, AP000345, AL031659, AL035698, AL136305, AP001328, AC002044, AC011464, AC005052, AC005088, AL031588, AP001670, AL021546, AC007637, AL049712, Z98946, AC004656, Z97632, AL049538, AP001715, AC004832, AC007114, AC011479, AL121586, AC010083, AC006538, AP001714, AL139092, AL121908, AL136131, AC008753, AC004765, AL049829, AL135928, AC002115, AX037570, Z93848, AL031594, AP001718, AL391839, AC007388, AC005015, AC002316, AC002306, AF030453, AC005057, AC002314, AC005730, AL021154, AC004792, AL133396, AL096763, AF111169, AL049780, AC008083, AF107885, AC006285, AL034451, AL009181, AL355531, AC006305, AC002365, AC010582, AL121983, AL109823, AF111168, AC011497, AL035697, AC006230, AP001694, AL031683, AC009953, AC008064, AC006480, AC004593, AL133232, AL136304, AL136094, AC006071, AC003678, Z83847, AC005726, AP001725, AL138707, AL024498, D87675, AC004771, AJ295844, Y14768, AC006531, AC016025, AL049539, AL035684, AL008627, AL031005, AC008760, AC004867, AF165926, AL162584, AL117381, AC005209, AC004791, AC007191, AC026770, AC006088, AP000553, AC018758, AC011450, AP000128, AP000206, AL357752, AF134726, AL121897, AC011445, AP001684, AC010267, AP000113, AP000045, AL034554, L44140, AL109618, AC008806, AL034380, AL035071, AC007308, AC008651, AC009509, AC005072, U91321, AC006449, AC006312, AL138836, AL031654, AJ289880, AC010748, AL035695, AC004554, AP000503, AC024563, AL353574, AC008403, AC009060, AC004890, AC006952,</p>
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					AC005669, AC024561, AC004821, AL049761, AL499628, AC005164, AF285442, AL008710, Z82206, AC005971, AC005343, AL109797, AC011455, AF196779, AC011473, Z95152, AC011895, AF252830, AC004089, AC005098, AP000248, AP000501, AP000208, AP000130, AC007277, AC008555, AL161731, AP000245, AC007664, AC009244, AC008569, AL031228, AC005330, AC008266, AC024947, AC007738, AC020913, AL158040, Z98743, AL157713, AC006146, AP000141, AJ003147, AC007731, AC007536, AC005080, AC008626, AC004975, AL121920, AC005500, AC009087, AP001746, Z93783, AC007686, AC002558, AC004755, Z82189, AP001660, AL138996, and AL138996.
HFXJN93	988	596815	1 - 1728	15 - 1742	BF967273, AV721288, Z30067, T74524, AW851405, AI609972, AI755214, AW500684, AI754567, H07953, AI754105, AW576251, BE139139, AI250552, AI284543, AI061313, AI254770, AA640430, AI251284, AI251034, AI251203, AA829036, AA640410, BE138387, AI962030, AW850230, AI440117, AW237905, AW303098, AV730824, AI884522, AA572813, AA704393, AV760508, BE138594, AW023111, BF526964, BF923365, AI620992, AW835445, AW974932, AV760915, AV756491, AW265359, AA630854, AW468009, BE017992, BF821897, AA635433, BG059972, AI251576, AW467607, AI267356, AL079734, AW873261, AW855643, AA535216, AL037714, AI469140, BE150796, AI358384, AW514006, AA584484, AA420546, AI249853, AA557982, AW958962, AW272294, AA225406, AA084609, AI583466, T71936, AA558404, AC019046, AC005291, AL109825, AL031276, AC002531, AC007850, AC006019, AL121893, AL159977, AC006450, AL353811, AL365505, AC008551, AL035683, AC006285, AL139123, AC016027, AL080243, AC016830, Z81359, AL034549, AP001670, AL049796, AL049747, AC011462, Z98749, Z95113, AL117334, AL121977, AC000134, AC018663, AC000115, AL049569, AC000025, AC009946, AL035669, AC002310, AC002352, AP001709, AL121949, AC004991, AC004966, AL121891, AF003529, U91323, AL133415, AC005274, AC004167, AC020955, AL009174, AC002126, AL021154, AL136980, AC005288, AC010358, AL133387, AC010422, AC004859, AC005932, AL121658, AL031658, AP001720, AL137143, AL136162, AF139813, AC004970, AC007041, Z97632, AC004983, AL139092, AP001727, AC004914, AF255613, AL355497, I34294, AP000555, AL022721, AL138759, AL117351,

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HFXJS15	989	800866	1 - 1863	15 - 1877	<p>AW975840, AI344191, AW957867, AW957790, BE844079, AA612685, AI635185, AA307367, AI870300, AW514984, AA976200, AA913907, W58073, AI858117, BE816094, AA149745, BE816090, BE816091, BE816089, AI608830, H10219, W57989, BE816092, AA084119, AA084204, H10275, W74717, W74683, BF814902, BE814676, T06583, AI581983, R39215, AA639622, T75351, F13666, W73548, AA666302, N48950, W73476, AA094314, AA460273, AA453154, BF327381, BF830030, AA626228, BE409684, AA249455, AA331897, AI298925, AI168541, AW294359, AW951445, AB011089, AL110234, and AB043550.</p>



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HFXJT53	990	823591	1 - 2999	15 - 3013	AW968790, AW964255, BE157966, AA054298, AW003262, AI337069, AW999290, AI088386, AV733313, AA036920, AA491158, AV732890, AW192721, AI803838, AA036860, T95113, AA490965, AA360817, BF886359, AW994341, T95215, AA263079, AA294999, AA676995, H67065, AI587328, BF906845, BG058713, AW189843, C01138, BE157962, BE157957, AI446168, AI802555, C05883, AV707753, AV656283, AV707510, AV728715, AV708381, AV693149, AV725920, AV695545, AV702427, AW954237, AV655096, AV705684, AV709587, AV702854, AV725617, AV704042, AV728652, AV704234, AV728270, AV709256, AV727929, AV659389, AV659294, AV659322, AW951437, AV726681, AW963768, AV651955, AV656256, AV726259, AV686064, AV703456, AV660608, AV709314, AV656903, AV709604, AV661704, AV727314, AV697196, AV698609, AV708438, AV655280, AV656478, AW955012, AV660728, AV652001, AV707656, AV709660, AV703169, AV728518, AV727029, AV727787, AV686060, AV726156, AV654908, AV698545, AV691080, AV727003, AV687035, AV727526, AV708025, AV684604, AV708980, AV692691, AV708992, AV696931, AV705280, AV699089, AV725745, AV706417, AV654035, AV729220, AV696866, AV728997, AV698429, AV726816, AV692972, AV685688, AV689800, AV693005, AV687909, AV707933, AV729378, AV701914, AV705159, AV702832, AV693523, AV709407, AV725033, AV728733, AV725826, AV728471, AV725134, AW960720, AV697498, AV727238, AW960629, AV727807, AV704607, AW960201, AV728436, AV729131, AV727935, AW964409, AV709555, AV727510, AV726103, AV728523, AV727613, AW956075, AV726026, AV692600, AV726590, AW959848, AV683994, AV701067, AV709580, AV701728, AW954248, AV726505, AV709101, AW960207, AV708893, AV702385, AV709935, AV707979, AV696106, AV727103, AV701496, AW951263, AV689111, AV728157, AV659536, AW952183, AV697288, AW964410, AV692345, AW959980, AV704553, AV683443, AV706219, AV706721, AW954134, AV704955, AV652156, AV701560, AV705693, AV707541, AW949478, AV708704,
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					AV703495, AW956474, AV704637, AV702345, AV658751, AV726624, AV706854, AV701707, AV702713, AV706165, AV706975, AV702516, AV728924, AV706677, AV702417, AV703501, AV707792, AW963478, AV694836, AV687176, AV705247, AV706279, AW949383, AV727221, AV725956, AW958295, AW950443, AW960601, AW952403, AW959806, AV705246, AV659547, AV707088, AW952751, AV645936, AW955723, AV725709, AV707304, AV658084, AV650283, AV650315, AV697880, AV650591, AV656373, AV726010, AV660258, AV708109, AV647789, AW959521, AW960655, AV650691, AV703146, AV728148, AW951239, AV650768, AV703790, AV653353, AV654070, AW951281, AV658275, AW949802, AW955662, AV703669, AV686420, AV682997, AF156929, AF026941, AF236064, Y07704, AF026942, AX047063, AR050070, AF217994, Y08991, S68736, A62298, AX047062, A82595, A82593, Z30183, AX047064, U94592, AX040581, A62300, U45328, A91160, AR025466, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, AX046743, AC017076, and AC017076.
HFXKG56	991	621395	1 - 752	15 - 766	AA640637, AA720653, AW975211, AA657561, AW015577, AI637893, AI699940, AV719913, D51250, D80227, D80045, AV718707, D80240, AV718692, AV724520, D80210, AV699669, AV701443, D80193, D80391, D80043, AV718489, AV701332, AV700889, D80253, AW949645, C14429, D80522, D59619, AV719049, AV720731, AW975618, D51423, D80196, AV722801, AV719783, AV718844, AV720464, C15076, AV742996, AV701422, AV723927, AV718681, D59927, AV700229, C14014, D80219, AV699927, C14227, AV699682, AV701248, AV720812, AV723097, AW973447, D80366, D59275, AV701125, AV718800, AV742001, AV742667, AW966531, AV720203, AW978634, AV701017, AV701043, AV744773, D59787, D80134, AW966053, AV701431, C14389, AV699550, D80188, AV699447, AV742720, D80166, D58283, AV719468, AW949642, AV719000, AI557751, AW973307, D51799, AV719324, AV701154, C75259, AV719822, AV720211, AV719557, AV701151, D81030, D80195, AV699866, AV721386, AV721784, AV745080, AW959570, AW949629, AW959582, AV720150, AW949641,

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HFXKL60	992	895307	1 - 3124	15 - 3138	BG113250, BF791544, BG254153, BE780937, BG030892, BE887355, BF666566, BG256293, BG179886, AW814884, AW811909, BG178609, BF525377, AL120438, BF696463, AW811918, AW609181, AV697336, AV717682, BF977601, AW811919, BE042557, AI921004, AW665869, AI439961, BG110329, BE567709, AL120462, AW020605, BF574535, BF247525, AA845400, AW973326, BF214379, BE327743, BF964902, AI735558, BF666079, AV712998, BF057417, N99606, BF029924, BF692502, BE886888, BF209991, AA075975, AW377662, N94920, AA913496, BF362942, AA776656, AA853938, AI538936, AI439956, AI439915, AI745155, AV727341, R80501, AA993066, AA935277, H20646, BG259089, AA312166, AW449188, AI161350, AV757976, BG120001, BE972583, W19543, AV654524, AA884866, AA280517, AA074079, N28284, AA507112, N92660, AA729426, AW268722, H20553, AI692463, AW898898, D61610, H86010, F06525, AI439955, N26361, AA328110, AA323266, BF218645, D80162, AA323025, H03623, AA371140, AI538058, N45110, AW602491, AA326633, AI885932, R80536, H60914, D80186, R36355, D81718, AA938040, R80395, AI088564, AA513966, H99238, AW367972, H60829, AA374067, R80424, AW868947, D59526, AA369346, AA360342, AV734601, BF843720, AI249944, Z39473, AA096186, BF086744, AI832915, BF246834, AA565386, AW962044, AA564714, BE147833, AC006312, AC006023, AL117328, AC007283, AC006011, AC018720, AC005667, AL021155, AL033529, AF001552, AF196969, AC008569, AL159158, AL355499, AC004167, AC008753, AC004039, AC002425, AC008745, AP001760, AL356414, AL049759, AC008392, AC007366, AC002128, AL050318, AL121752, AC011479, AL139095, AC004089, AF196972, AL022326, AL445248, AC002470, AL158196, AC005821, AC004491, AL358777, AC011450, AC005089, AC020904, AC002302, AC007193, AC005971, Z81365, AL353802, AL121920, AC005839, AL133545,

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HFXLG08	993	885514	1 - 1684	15 - 1698	AV718633, AV718938, AW962245, AW949498, AC008403, AC008569, AC011489, AC005736, AC002350, AL121952, AL022318, and AC008536.
HFXLK91	994	827288	1 - 1834	15 - 1848	BG171708, BE867741, BF216470, BF791380, AV707629, BF681182, BE276550, AW957089, BF894253, BF926529, BF244453, BF696061, BF131157, BE004431, AA644593, AA421831, AI950398, AV735049, AA137197, AI027774, AW407515, BE464069, AI925397, AW071602, AA593402, AI086982, AI701883, BF111605, BF247319, AW103906, BE019000, BF746416, AI206666, AW293667, BF746417, AI139174, BE140590, AA335638, AA322989, AA369423, AI686666, AI753707, AI624634, AI539394, AI916612, AA112479, AA137198, AI923155, BF902897, BG169985, AI634381, AI680636, AA056308, BF210167, D61833, BE000855, D61802, BF239954, AW516385, AI869511, AI470428, BF804215, AA683405, AI174442, AI349550, H86372, and AK000630.
HFXLM32	995	866446	1 - 726	15 - 740	AC025700.
HGBAX83	996	722222	1 - 1001	15 - 1015	AA622480, AA653692, AW779481, AI476274, BF663461, AA742326, AI373713, AI452527, AW874519, AA344653, AW150642, AI476273, AI274550, AI692854, AW009127, BE463772, BF002731, AI346723, AI028609, AA621699, BF431176, AI018098, AI208864, AA542891, AI218360, BG057091, AW338099, BF056546, AI913144, AW613152, BE673597, AI143645, AW194951, AI016677, AW438884, AW007652, AI653159, AI621239, AI888715, AI634113, AI824884, AI199411, AI654878, AI699354, BE502357, AI675132, BE503495, AI245283, AW196267, AA507876, AI675656, AI970882, AA992397, W74249, AW068623, AW189877, T49250, AA495892, W79800, BF568899, W26105, AA868756, F32107,

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HGBBR29	997	823106	1 - 1892	15 - 1906	AL527420, AV759529, BF793383, BG257996, AV681828, AW614651, AI984005, BG107100, BE538464, AW029508, BG260699, AW968098, BG250370, BF341426, BF034745, BE621367, BE887671, BG120465, BF213226, BE540009, AW960422, BE535752, BE621621, BG026132, BF132816, AI472265, AL527459, BG165522, BF669315, BG257188, BF219458, BG167504, AW876889, AW081614, BF670079, BE140134, AI568637, BF207658, BE886490, AW439503, BF212719, AW675668, BE140151, BG165544, AA255978, AI743638, AI862335, AA922152, BF245130, AI347016, W72484, AI459193, AI161083, AI702194, AA929057, N28562, AI077603, AA010473, AI582840, AI077599, AI150289, BE539935, BG251359, AA112285, AI215517, AA976467, AI245787, AA668988, N27568, AI753723, R17472, AW206505, AA062665, AA724422, W75942, AA700503, AA194650, AA878049, AA167618, AA167756, BG165587, H99877, N20299, AA256044, BE535571, N34775, W69116, AA233543, AA598447, BF056324, AI769333, AA903864, AW976301, BF927827, AL135540, AW104846, AA708255, AA305457, BG166199, BE815403, BE827148, AW196739, R80080, BE018475, H89552, T83401, BF812627, AI358370, AA010377, AA402440, BF667438, AI566392, BE909043, BF379910, N44501, BF742617, D53681, R68486, AW029473, BF094363, AA345352, BG115869, Z25345, R79980, F00337, N67848, AL120700, AW069744, BF809674, AW352408, N55692, AU124177, W69241, R42818, AA094220, R68485, AA094023, AW992263, BF808204, BF087922, AW841832, D79235, BE819474, BF943804, BF665593, BF669422, AA471375, BF907949, BF812638, N55853, BE243411, AA668617, D80168, D59619, C14227, D80949, AV718692, D80240, D80045, AV723927, AV718489, D80193, BE003903, D80210, D80253, AV719783, AV718844, D80043, AV720731, D80219, D51423, AV722801, AV720464, AV724520, D59927, AV699927, D80391, AV720812, AV699447, AV720203, AV744768, AV700229, C14014, AV742667, D59275, AV701043, AV720211, AV742001, AV701017, AV701431, C14389, AV719822, D80227, AV701248, AA749151, D80196, AV721784, D80366, D80195, AV699746,

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HGBDL51	998	862023	1 - 1202	15 - 1216	AW965215, N67300, N98544, AW182857, AW088510, AA345874, AI637779, AA279110, AA279377, BF694523, AA903828, AI637995, BE003289, BF351807, AC073268, AC073268, and AC073268.
HGBDV35	999	581058	1 - 1177	15 - 1191	BE748621, AV712189, BE738323, BE876745, BE738425, BE748780, BF038645, BF530829, AU137361, BF698591, BF185229, BG180639, BF669759, AV654600, BF031395, BF978671, BF674354, BF131380, BE296821, BF687866, BE737861, BF666353, BF184786, BE748073, BF691280, BF210211, BF130590, AU135092, BF212484, AV709046, AL038984, BE748483, BF245604, BF540738, BF207457, AI246503, BF667691, BF211050, BE958555, BF211332, BF701495, BF208086, BF669363, BE782017, BF030418, BE958539, BF695427, BF217468, BE566226, BG166114, BF243291, BF669848, BF238689, BF699870, BF701181, BF184311, BF698854, BF239271, BF673895, BE564955, BF700289, BF668872, BF212189, BF701094, AW960115, BE737817, BF132537, D83880, AI354442, BE875233, BF184811, BF541333,

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HGBDX28	1000	665520	1 - 1404	15 - 1418	BG253447, AI138636, BF445146, BF940004, AA630282, W72594, AA497041, AA677701, BE841636, AI291808, AI190362, AI628895, AI536706, BE048953, AI457213, AV722572, AI192929, AI745350, AW070757, BE669839, AI362325, AW470152, AA829518, BE562523, W84500, AI800724, AA121310, AV724923, AA255628, AW162987, BF478035, AA635436, AA765475, BE551660, AU150208, AW083363, BF767232, AI811328, AI362064, AI990203, AI277682, AW137605, AI093718, BE246531, AA854397, AI571499, BE254317, AI078354, BG057904, R83359, AA235732, R83795, AA256920, AA256496, N56885, AI761321, BF476089, H73879, AA010029, AA779117, W85937, N48742, AI061317, AI985236, H74074, W85936, R08825, AW188919, R08824, AA233649, AA721191, H63244, AA347589, AA721190, N70984, W84847, AI654781, AA580125, H63323, BF874340, BF433487, W01517, AW839401, AA629217, AA721317, AI825199, AK026819, AC005041, and AK022850.
HGBGX31	1001	824177	1 - 1840	15 - 1854	AI827455, AW451460, AW271709, AA045351, AA045357, W07299, AW269529, BF674581, AA088179, BF002734, AA744417, AI004344, AA045187, BF510467, AA744218, AI420964, AI742317, AI521736, AW182676, R43284, H21615, R18914, AA639631, AW590886, BF852905, AA045136, T79340, AA621101, AK024695, AC015918, AC015918, and AC015918.
HGBHE23	1002	832303	1 - 681	15 - 695	AW410782, AW955940, BF792459, AV726411, BF432662, BE857492, AI972565, AI056672, BF978843, AA778523, W60863,



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HGBHI15	1003	608170	1 - 672	15 - 686	<p>AA345020, AW865946, T74524, BG012020, AA630854, AA706495, AW302017, AI860535, AA483606, AW019964, AA570740, AC022150, AC008813, AC022137, AC011290, AP001711, AF029308, AC005071, AL031311, AC016602, AC004491, AC005740, AP001712, AC006441, AP002529, AL138752, AC007057, AC007193, AC011455, AB042031, AC007722, AC008403, AC006960, AC008738, AC006387, AL133545, AF111168, AC006064, AL031230, AL356750, AL121655, Z82206, AC002369, AL022396, AC011497, AC005529, AC006011, AC006511, AC008753, AL035249, AC002430, AL135927, AC007227, AC005229, AC000353, AC007384, AC008392, AL132639, AC006480, AL158040, AC016652, AL049870, AL356376, AC025593, AC009228, AC013734, AF030876, AC008892, AC005736, AC016898, AC004985, AC018663, AC008747, AL117381, AL031651, AL136365, AL050348, AC012442, AL136300, AL161659,</p>

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HGCMW39	1004	799530	1 - 2296	15 - 2310	AL523720, AL533048, BE792355, BE907131, BG164612, AU135204, BF525727, BE311943, BF034825, BE785731, BG180410, AU132322, BF036614, BF315009, BF527883, BF215152, BE542207, AW886514, BE878833, BE314134, W95046, AI720278, BE383430, BE834378, BE617233, BE260346, AA491099, N99156, AU153867, AI304346, BE314114, AU159569, W87778, BF027005, AI921827, AI889055, AA533075, W95047, AU153656, AA489371, AL119943, AU158444, AA716333, AI928555, AI753492, H30867, AW297248, AA489430, BE694501, AA931134, AA582897, N32959, T08534, BF244126, AI129140, W16538, BG252856, AL137989, AA780311, AI140256, AA133613, AI500251, AI937458, AA778021, AI673608, BF948366, AI090664, AA258046, R18722, AI366511, AI085336, AA350982, AI573082, AA835351, AV696692, W24163, AA860782, AA599761, R79526, W87876, AA490911, T09485, AI571750, R67331, N90105, AA412276, F30520, AI215142, T09242, AI991456, T31117, AA419056, R18254, T08319, F36883, F31638, R88019, T09486, BF948394, AI000794, T09357, R86714, AA133718, AI954335, AA046244, N42632, AW163339, H84537, AI367457, R18199, BG152574, BF948228, H16159, H41642, AI040301, BF948404, AW157285, R81637, AA234234, AI499594, W90226, BE834569, AA324055, AA775884, R21920, R49931, AI272336, H84220, R81434, AI565649, BF930099, AA765886, R49932, BF932522, AA676291, AA322262, AI753385, R66494, BF826346, R28111, R42364, H95700, BF842856, T53700, AA618526, N79553, AA618588, BE617736, BF807571, AI872067, AA873210, F35778, AA996302, F20679, R00863, W38460, R22569, AA323297, BG009406, AA046278, AW074581, AA426346, BG013419, BE048018, T35084, AV701874, BF527388, AA036673, R81101, AU140266, D20963, BG014404, BG165051, BE963560, AL036403, AW089275, AI251221, AV720959, AI568060, AL134999, BE138374, AW274318, BF752858, BG113224,

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HGLAG32	1005	668271	1 - 760	15 - 774	AI694297, AI769298, AA019929, AI954146, AI122726, AA811734, AA012878, AA868085, AI290954, AI653321, BE468137, BE468146, AI655905, AA777006, AA142969, AI990369, W92314, AI990626, N24152, AA059218, T50739, BE844138, BE844154, BF448350, AI656278, AI004884, AW090713, BF059235, BE328865, AI963894, BE550376, W26392, AI914285, BF437976, AW770721, W81609, AA969737, AI824825, BF446506, BF433019, BE673879, AA015710, AI872967, AI680938, Z21449, AW768250, AA600184, Z21159, AI814637, AI290875, BE670512, AI809385, AI809382, Z21384, AW594320, AA629594, AA580932, AA665477, AI290676, BF195290, BF185058, BF185133, AI290667, Z21172, X85617, X85621, BE327699, T18947, BF976808, AA020989, Z21186, AA430289, C20609, BE671350, AW246438, AV747742, AI214540, AC006432, AC008013, AC008013, and AC008013.
HGLAH08	1006	704084	1 - 600	15 - 614	AW138904, AA648520, W67727, AV751614, AA845447, AW780254, BE858539, H97578, AI735460, AA700588, AA173197, AA143466, AI683360, AI609605, AW514581, AI553914, AA426042, AA582850, AI361073, BE855510, AA757234, BE221276, AA830128, AW887052, AI367388, AA587480, AI457988, AA126939, N66936, AI017352, AI689366, AW006600, AI860508, AI245298, D59326, W67455, AI471199, AI718438, AL536661, AI189983, AA954621, AI767787, AA412060, AI245792, AI200305, AW517523, AA402248, AW337270, AI797440, AW955666, AA962148, AW304215, AI635986,

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HGLAH86	1007	603525	1 - 835	15 - 849	AI807570, AA179163, BG250384, AL038936, AC005035, AC006084, AL022238, AX026548, AC008569, AC020904, Z95331, AL159970, AC004953, AL035417, AC002306, AC073184, AC005043, AF199339, AC004513, AL008732, AC010505, AC011465, AC005166, AL020994, Z93023, AC002365, U91326, AC004231, AL031660, AC006165, Z98044, AC058791, AL031005, AC006014, AC012151, Z97056, AL117186, AC010458, AL133387, AB023051, AL049537, AC009542, AC007639, AC007383, AL023805, AL136529, AL109984, AL137139, AC024952, AC004125, AC004966, AC025594, AC007030, AC005049, AP000512, AL049760, AC002564, AC006483, Z94056, AC010489, AL138735, AF053356, AC013436, AC084693, AL035089, AC005035, AC005035, and AC005035.
HGLBC33	1008	701989	1 - 748	15 - 762	AV727282, AV722482, BF969759, AW149536, AW956668, AW054847, AA572765, BG057707, AW005324, AI692582, AA286937, AI912930, AW243475, AL119144, AW149820, BF920939, BF739842, AA286930, BF510278, AW298507, BE045320, AW590372, BE218393, AI198284, AI381607, AI391744, W80856, AI955033, AI005048, AA676805, AI041104, N25710, AA579474, N50850, AW613049, N98582, AA705111, AW296664, AI570816, AA398102, AV650003, AA911018, AI566335, AA804616, AV706827, N67651, AI863917, BG057914, R78290, AI374901, F08976, BG152483, AI569895, BF438945, AW337602, AA421375, R32625, R28096, R78291, T32565, AW243361, Z19718, AI863766, AA394076, AW293112, D60457, BG119578, R26267, N34100, AI572724, F13759, AA680154, N69980, R30781, AI912797, BF996854, AI217451, R25441, R32512, BG000071, BE180977, BF819828, AB007889, and A75338.
HGLBG15	1009	701990	1 - 764	15 - 778	AI377951, AA478899, AL521476, AI970420, BF571396, BF690972, AA478780, AI522149, BF571271, AA758425, AW956237, BF692249, AI954716, AW197154, BF576614, AI631753, AI829079, AI765476, H99846, AW274419, AI371713, AI951909,

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HGLBM55	1010	799531	1 - 1607	15 - 1621	AU132920, BE890285, BG105284, AL119190, AW606987, AW167942, BF211377, AA927733, AA427380, BE537705, AI284238, AI378483, AI589991, BF810049, BF810047, AU127953, BE546370, AI002485, AI270437, BE326612, AI356154, N92207, AA729541, AI310483, BF229481, BE047328, AA502358, AI017235, AA825233, AI093873, BE878455, AW999164, BF810033, N90341, AA206860, AA910613, AA972652, AA814204, N66603, AA127447, AI810950, AI093816, AA635467, BF095768, C21460, N63272, H13500, AA282611, BF735540, AI290749, AI350594, AI128217, AI681325, AI300717, BF130995, BF810050, N72294, AA780350, AV745962, Z42624, H13448, BF057651, AI269098, AW373056, AW955982, AW955977, AV745923, AA127448, AA490945, AA369320, AV745949, Z43825, F06820, BF093472, AA766547, T80459, BF939282, AA629103, AA115925, AU137945, R84767, BF229482, BG252815, BF130784, AA804970, AW974101, AA830024, BE871497, AI358601, AI432019, BF058944, BG149238, AW438904, AI333949, BF792374, AW827289, BE907203, AI471325, BE540578, AA115926, AI333104, AI538692, BF814357, AW022093, AW129433, AW151451, AW193120, AI868204, AI582871, BE393784, BG028100, AV716976, BG105895, AI929108, AI923989, AI473208, AI915795, AI287476, BE048235, BF819346, BE839731, AL039011, AI933992, AA835947, AW162194, AI859464, AL134828, AI624548, AW302988, AI678446, AV716495, BE965432, AW168875, AI340603, AW020693, AW071349, AI621341, AI564290, AI698391, AI684164, BF813177, AW020629, AI205869, AI554428, BF970481, AI927233, AW151132, BG249582, AI401697, AI125109, BF822127, AV714975, AI434242, AW163823, AI683979, AW024374, AV692345, BG105099, BE876256, AV721491, AI683165, AI500714, AV712672, AI818353, AI590043, N29277, AI039104, AI696340, AI961589, AI538850, AW028921, AV758803, AI537677, AI249497, AL042432, AV682875, AV682124, AW161098, AW079572, BF343394, AI560873, BG114122, AI570140, AI445611,

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HGLDA95	1011	862035	1 - 948	15 - 962	BF347173, BF526600, BF984592, BG171092, AW138768, AI949338, AI762441, AW026006, AW167545, BF340565, AI885359, AA779779, AI340365, AI139680, AI761389, AW250433, AI274125, BF107061, AI991997, BG025252, AW008345, AI807829, AV707559, AA985323, AI419020, AA779131, AA669665, AW581114, N41657, AI611824, AA043492, AI904558, AW631270, BF903610, R07003, AI766443, AA348640, AI381373, AW631387, R95998, AW026467, BE672089, BE075856, BG007614, BE905439, AW968755, BG007613, AA491208, AA767552, AA916243, BG007586, AA043491, BF105983, AL354740, AL354740, AL354740, AC025405, AC025405, and AC025405.
HGLDB06	1012	855945	1 - 827	15 - 841	AI079118, AI038484, T10155, F07358, F08072, R23557, F07357, AA429414, BF112103, AI183463, AI685676, AV720317, H69890, AA469107, AW293235, AC010328, AC004996, AL117338, AC004953, AL355492, AL121928, AL118519, AC069539, AC007744, AC005253, AC026122, AP000497, AL096791, AC010189, AC010189, and AC010189.
HGLDE15	1013	840364	1 - 444	15 - 458	AW576498, AL046179, AI686416, AW086068, AW512122, AI476656, AI767298, AI379497, AA970024, AW572698, AA905607, AV718752, AW237446, AA181666, AA101416, R69265, AW195573, BF886394, AA923448, D80528, D80527, AA551504, BE348327, AW971266, BF029748, BF209790, BE217740, C00896, AA582123, AL109865, AL136133, AL109865, and AC068841.
HHBEI14	1014	862026	1 - 1523	15 - 1537	BF919751, BF330647, BE062225, BF330653, AW104189, AI809432, AI287764, AI862220, BE773015, AA761009, AI583282, AU142685, AI524381, BG055552, AI081273, AI634214, AI022976, AW088888, AA469321, BE875275, BE879882, BE881230, AV723195, AV705433, AV701496, BE880733, BE877083, BE878027, BE874492, AI287963, AV759594, AI817810, BE873792, AI698669,



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HHBGL33	1015	862027	1 - 505	15 - 519	AI376549, F20607, F20576, C02621, AA249066, AA730108, AI382517, AC007225, AC007225, AC007225, AC007225, AC009066, AC009066, AC010547, and AC010547.
HHEAW44	1016	821654	1 - 1720	15 - 1734	BF327598, AI499615, AI590755, AI866691, AL042416, AI623736, BG180788, AI926593, AI539771, BE897632, AI432644, AI537677, AI494201, AL513905, BF812963, AI804505, AI500659, BE883591, AI866465, AI815232, AI801325, AI500523, AI538850, AI887775, AI582932, AI923989, AI590043, AI872423, AI284517, AI500706, AI491776, AI445237, BF811804, AI289791, AW151138, AI521560, AI889189, AI500662, AI539800, AI284509, AI582912, AW172723, AI538885, AI889168, AI440263, AI927233, AI866573, AI633493, AI434256, AI866469, AI434242, AI805769, AI888661, AI500714, AI284513, AI888118, AI285439, AI859991, AI436429, AI355779, AI889147, AI581033, AI371228, AI491710, AI440252, AI431307, AI499581, AI440238, AI567971, AI866786, AI860003, AI610557, AI431316, AI242736, AI539260, AI828574, AI887499, AW151979, AI539781, AI539707, AI702065, BF983779, AI885949, AI285419, AI559957, AW089557, AI521571, AI801589, AI469775, AW151136, AI866581, AI567953, AW074057, AI815150, AW858522, AI446495, AI610426, AI867068, AI952433, AI889191, AI225248, AI500658, AI698352, AI887785, AI799313, AI371229, BE885490, AI358271, AI285417, AW151132, AV655425, AI440260, AI815239, AI469764, AW058275, BG167830, AI440236, BG252929, AI690948, AW151974, AI623302, BG108239, AI866458, BG178351, AL042365, AW194509, BE962698, BF814072, AI890907, BF811802, AA641818, BG163646, AI554821, AI561170, AI888022, AI431238, BF815930, AI690946, AI355126, AL045166, AL047611, BF812438, AI648567, AI371251, AI866510, BG114012, AI282249, AI433157, AI866461, AI923046, AI049859, AI433155, AI436438, AL047422, AW268964, AV716546, AW196720, AL048403, AL047398, BE789764, AI963849, AI582910, BE048131, AI955441, AA827720, BG029667, AI798359, AI289101, AW858243, BG113493, AI525669, AI354981, BG110517, BF526407, AW169784, AI371243, AI811603, BE622452, AI554827, BF526393, AV736995, AI866820, BE886728, BF974886, BG104506, BG257535, AV735659, AI499325, AL039390, BF795712, AI493559, BG108309, AI804531, BF796402, BF343238, AI274759, AI500061, AI432666, AI924051, BF032404, BF983875,

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HHEBP28	1017	775744	1 - 1894	15 - 1908	BF512537, BF732413, H82380, H58150, AL523019, AI207376, AA125930, H13029, AI207386, BE672167, AL119639, Z44035, R58424, T87496, AA782965, AA808536, AI351464, AI620611, BE671459, AL523043, AI341668, AI338335, AI919256, T80197, H05929, AI925590, BF514528, F03253, AC010169, AC034101, and AC010169.
HHECK41	1018	898182	1 - 499	15 - 513	AA521488, BF436025, AA714210, BF435180, AW150913, AW167245, AA910394, R76459, BE046342, AW468890, AI191112, AA919021, H49170, AA055759, AA767016, R34834, AA807113, R76772, R34930, AV742656, AI538792, AA284400, D50918, AC004913, AL355348, AL355348, AC004913, AC004913, and AC004913.
HHECR10	1019	621371	1 - 1016	15 - 1030	AI284640, AI334443, BE277210, AV759204, AA521399, AA521323, BF668217, AL046409, AA610491, AV763540, AV764263, AL042853, AA877817, AV763971, AW303196, BE409047, AL042753, BE253048, AW301350, BG249643, AW265393, AI963720, AL037683, AW274346, AV710066, AV760937, AI754253, AA584167, AV762098, AV682003, AI270117, AA719292, AA908687, AA581903, AL038072, AW088846, AI473943, AL046205, BF677892, BF914859, BF130605, AW274349, AV762139, AI860020, AI623720, AW833862, AW270382, AV740801, BE394054, AI431303, AL121235, AI370074, BF991286, AA126035, BG236735, BF475381, AW662543, AV703682, AW503666, AI583283, BE160727, BF915628, AV762959, BF915247, AL041690, AA126051, BE297262, AV763354, BF915722, AV762645, AA468244, AW193265, AI696962, AI357901, AA587604, AA576336, AI281881, AI537506, BF827410, AW630298, BE872393, BG150796, AV761155, AL119691, AA480772, BG059568, BF197650, AA491814, AV762111, BF241967, AI370094, AW518220, AI754955, AV713243, AW973254, AV764307, AV759362,

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0950083 091201

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HHEMC55	1020	566796	1 - 1049	15 - 1063	<p>AF074667, AV762783, AV760723, AA524604, AL042906, AV700498, AW188427, AV764490, AL135377, AV700988, AV700545, AL042905, AA634991, BG260565, AV711842, AI457389, AL534817, BF381650, AU119532, AU145476, AV699709, AA708108, BE796439, BF826830, AA126635, AV762828, AA470577, BE675240, AV711584, AV707404, AA526787, AU121882, AU155048, AV700600, AL046746, AA640277, AA595093, AI866487, BG028665, AV761286, AA130901, AV733710, AL048969, AA603421, AU140392, AI952885, AA534064, BE297356, AW131249,</p>

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HHEMM20	1021	603534	1 - 1735	15 - 1749	
HHEMM80	1022	610264	1 - 124	15 - 138	
HHEMP35	1023	821328	1 - 1971	15 - 1985	AL043045, BG027542, BE908937, BG164500, AI290672, AI829713, AI547314, BE784472, BG253260, AI826499, AW245449, AI912299, AA827585, BF689282, AW148712, AI969463, AA242958, AI924695, AI985786, BE464672, N79122, AA652621, AI911877, AI459001, AW408119, AW150867, BE793702, AI085699, AW027386, AW005251, AA284522, AI913314, AI337930, AI753265, BF435202, AI814626, AI269043, AI334357, AI627452, AA678240, AW469183, AI343754, AA402617, AI420824, AW087580, AW475033, AW962871, AI337938, AA907130, AA928713, AA242823, N62357, AW078683, AI680856, AL519975, AI262779, AW957526, BE350133, AI222874, AW661719, AI546974, W84502, AA641421, W84735, AA729236, AW627676, BF115831, AA370862, AI432156, AA372368, AA594758, R49951, AA321076, AA631065, AI948763, AI864535, BF087932, AI678379, BE247093, BE694581, D45512, AI082512, AI471091, AA033606, H06727, AI452580, AA676438, AW023678, AI079620, AA354408, AA373948, AI783470, AA370861, AI564671, AA337037, R82700, R47801, AI564686, AW630969, AI382973, AI571074, AI701726, AW190401, AW881388, AA033607, AA481984, AW814676, AI935844, AI420826, AA704412, AI281318, AI262614, AA375243, AA806817, AI561327, AI608667, BF726421, BG179993, AI702406, AW071417, BE048071, AL513907, AL514919, AV681951, BE968552, AI349772, AI064830, AV757827, AL040243, AL047042, AW827203, AV682289, BG036846, AW071349, BG029399, BE785905, BE047863, AW303152, AI349933, BG168696, AI349004, AV682249, AW827211, AV681857, AL514627, AL036146, AL121365, AL036396, AI687728, BE048026, AL513911, AV711509, AL514303, AL036802, AL046849, AI538716, AI207510, BG257535, BG110283, BG252914,

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HHEMZ08	1024	840026	1 - 1562	15 - 1576	AI653359, AI811005, AI743036, AV697280, AI568555, AA625521, BG167806, BE048864, AI824027, BF448652, BF438214, N40011, AI130747, AI126543, AA193304, AI379074, AI624113, AI936637, AI368011, AI275538, AI080358, AA404268, AW236922, AW960595, AA564363, AI276027, AV702601, AI275570, AI368003, AI191276, AA962422, AA488874, AI635306, AI480304, AI492368, W45197, AI333916, W38715, AA731161, AA443016, AI934349, AI291511, AW594009, AA488954, AI274931, AI582669, AW469885, AI693424, AA071470, AI581645, W38762, AI696471, N92570, AI383502, BE646049, AA625343, AI480410, AA613349, AA824555, AI096708, AV684337, N27277, AA861317, AA463456, AI796055, AI041748, AA335410, AI523346, AI933211, AW571434, AA194258, AI224569, AI868719, AA451885, AA135295, AV683399, C16240, AA360398, AA257150, BF367469, AW250238, BF515389, AW875802, AA135165, BF927607, AI868703, AA401229, N34385, N42846, AA419446, AA736543, AA584194, AI085242, AA745092, AA594157, AW613813, BF347269, BF801143, AC002364, AL353937, AF217518,

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HHENC17	1025	826646	1 - 2224	15 - 2238	AA203742, AV684778, BF671901, AV753357, AI693143, AW976877, BE044161, BE218347, BE350886, AA847662, AW978281, BE502321, AI376829, AI221206, AI243247, AI498640, AI268751, AI809912, AA806832, AV693528, AV691071, AV746872, AW961775, H62501, AA884174, AW085185, AA767666, AA348013, AA761650, AW026782, AW748972, AA262813, D61601, AA810116, AL121917, and AL121917.
HHENF95	1026	709685	1 - 1112	15 - 1126	BG254981, BG114340, BE544111, AI432666, BF795712, BG252929, BE018334, AI275175, AI440239, AI499463, AI432656, AI433157, AI863014, AI539771, AI500659, BG257535, AI568855, AI500523, AL515375, AI433976, BF812933, AL043981, AL045500, AI436456, BF726297, AI537677, AL513911, AL514919, BF726322, AI612913, BE963035, BG179586, AL514101, BF812438, AI499512, BG252040, AL513553, AL513753, AL513907, AL513837, BG164752, BG033403, BF983875, BE895801, AL513807, AL513839, BF971016, AI620284, BG110517, BG031815, BF792469, AL513763, AI491776, AW169671, BF527014, BG179993, AI866457, BF726234, AV682011, AI540832, AL514129, BF055737, AW827175, BE048013, AI815232, BG111590, AW087445, BF812938, AI569616, BG030837, BF726001, BF812961, BE895585, AV703585, AI866608, BE048071, BF725868, AW071349, BE048179, BE783707, AL040243, AL514819, AI269205, BG120816, AI284517, AI802542, AL515173, AI636456, BE047738, AI682720, AI922901, BF727212, AW149869, AL515041, BG164371, BG179250, BG180046, AL513693, AV723745, AL514983, AL515191, BF338723, BE876033, AL513713, AI250293, BE891101, AI567940, AI554484,

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HHENR74	1027	825671	1 - 1127	15 - 1141	<p>AA568971, D31243, AU147800, BG236735, BE872393, AW630298, AI587583, AI587565, AA584489, AV761608, AL037683, AI284640, AI291124, AW467362, AI291268, AV703682, F36273, AL118991, AV681599, BE042649, AL046409, AI040051, AI431303, AI004591, BF724372, AI473943, AW193265, AA581903, AV759204, AI358501, BG058664, AW276827, AI963720, BE301111, AI075876, AV761188, AI350211, BE160727, AI613280, AW166611, AI745151, AI860020, AW972769, BF940837, BE042475, AW238278, AI345654, AV761317, BF813686, AV760937, AI570246, AW503900, BF668217, AA469327, AI610159, AW503420, AV760207, AA610491, AV758994, AI688846, AV725627, AI801600, AW769399, AI871722,</p>

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1022T60" E8005660

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HHENU33	1028	560844	1 - 1566	15 - 1580	BF943480, AL035469, AC015749, AC015749, AC015749, AL035469, and AL035469.
HHENY07	1029	638321	1 - 2124	15 - 2138	AU116849, AU117631, BF982876, AL044123, AW574512, BF793010, BE789148, BG116838, BG116756, AA131310, BG171248, BE855770, BE551914, AI857674, AA429583, AU143829, AI435106, AU146509, BF056122, AA936081, BF691066, AI656719, BF241240, AU151346, AW965175, AU144412, AA131523, BF241698, AI553954, AI338118, BF696442, AI434385, AW661770, AA885165, AA431743, AA954964, AA972033, W76628, AI198936, AI672674, R68530, BF432510, AW968900, AA488999, N62245, N40295, AA977604, AA455048, AA909881, H96018, W73020, R68236, AW340789, BF031756, AA345059, AI866149, BF907113, AA488783, BE569093, AL039323, N79336, BG105812, AW583714, AI918449, AV682106, AW051088, AL036780, F27788, AI698391, BF871314, AW023859, AI802542, BE886827, AI499285, AW983829, AW983832, BF812960, AW152000, AL514819, BF970768, AW020397, AL119399, AV656903, BF725644, AI587121, AI419650, AW150794, AI570807, AW089275, BF886638, AI702073, AW198075, AL515191, AW188840, AI783861, BE910373, BG166654, AI620089, AI922561, AI269862, AI571439, AW130930, BG025209, AI537261, AW827289, AL134999, AW130134, AL119791, BF868489, BE540365, BF753056, AI583558, BF806065, BE047852, BE876256, AI624293, AL048334, AW168791, AW168485, AI933589, BF814527, AW149925, AI445990, AW080746, AI539800, AW104141, AW008166, BF814450, BF039003, N29277, AI568114, AI174394, AI923370, AI886181, BF339322, BG028528, AI917963, AI288305, BG029829, BF526020, AI917994, AI669864, BG122481, AV734923, AV757279, AI690687, AW198090, AI354998, AI536685, BG058052, AI184903, AI799183, AI634223, AL046466, AI336575, AI560099, AI254731, BF970652, AI623941, BF872365, BG179993, AV728833, AI270183, AW023338, AW083573, AI590043, BG260287, AW118518, AI857299, AI866573, AI612750, BG112718, AI801325, BE908921, AI468872, AL119863, AI884318, AI919593, BF037484, AV756440, AI335426,

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HHEOK77	1030	841099	1 - 2475	15 - 2489	BG252682, BF032501, BF981675, BE875387, AW954387, BE893080, BG253403, BG110475, BF667306, AW994329, BG164249, BF033123, BG164034, AW748792, AI972475, BF214646, BE888806, BF698280, BF541611, AA398463, BF540818, BF970862, BF102511, AI310521, AW394139, W37660, AW394138, BE613684, AW996902, AW328535, AA876015, AI745165, BF700960, AW467241, AW394137, BE551293, AW978779, AW328536, AA044660, BG165164, BG111134, AI371124, BF809331, AW394158, BE150819, AA197167, BF351350, AI679643, AA282325, BF239544, AW371035, AA828320, AA259013, BG260130, AA485506, AI439059, AI150662, AI340213, AW957452, AI380636, BG024284, AA649293, AI307217, BF876033, AA282278, W42584, AW403554, AA664134, AA600985, AA171725, W37567, BE676789, AI150715, AI393660, AV702008, AI032076, AW277099, AA465438, AA634812, AA620850, AW515557, AI538046, AA399557, AA287539, BF095265, AA044795, AV661277, AV656535, BF131957, AI273352, AA522921, AA236738, BF839238, AA112884, C04604, BF439933, BF902367, AA044887, AW291795, R65996, AA993012, AA083747, AA133828, BE825593, BG171207, AA171915, AA300696, BF898143, AA845909, AA887742, AA634259, AW895981, AW895777, AA262768, AA482640, AW896053, AA456500, N88529, AI335892, H67198, AA461402, AW450054, BF752734, AW895650, BF695499, AW867780, BF700192, AV725464, AA460474, H67871,



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HHEPE72	1031	621254	1 - 1046	15 - 1060	AW805539, AW833901, AW805547, AC002477, AC002558, AL009181, AC011462, AC005089, AC010271, AC027319, AC009516, AF064861, AC002301, AL160231, AL031311, AP000502, AL139353, AL049840, Z84466, AC018751, AP000553, AL133243, AC016554, AC011475, AC004019, AL121751, AL136179, AC004551, AC004867, AP001710, AC008403, AC008764, AL163279, AC010311, Z84469, AF243527, AL035420, AC005328, AL023881, AF168787, AL096701, AL109743, AL353574, AC008770, AP001748, AC006001, AC027644, AP001670, AL109758, AL022318, AC009086, AL009030, U47924, AC020917, AF001552, AC004971, AC004999, AC005841, AC006538, AL117380, AC006312, AC008623, AC020913, AC004230, AC005667, AL008718, AC022148, AL022336, AC020904, AL356652, AC005324, AC005031, AF134726, AL121943, AC005907, AL121601, AC004167, AL160175, AL033529, AC005755, AC005411, AC009194, AL136304, AL050341, AC002115, AC005519, AC018755, AC005736, AL138836, AL121905, Z82180, AL353804, AL357519, AC005245, AL022311, AC010205, AC069214, AC069214,

HHEPE81	1032	840614	1 - 3319	15 - 3333	AC069234, AC063942, and AC063942. BG030417, AL534118, BG112847, BE614191, BE891018, AV706808, AV706599, BF796181, BF981286, BF343645, BE537579, BG029230, AI631954, BF695525, BF666493, BF968872, AV715328, AW996835, H98991, BF699320, BF977306, AI637655, BF699172, BF033626, AW195342, BE694438, AI950435, AI797689, AW009416, BF102943, BF063516, BE464984, BF573689, BE769289, BF196016, AI741392, BE613951, BE464522, BF591172, BF241928, AI860320, BF697020, BE674207, BE672807, AI341672, BF223692, AL534117, BE671147, AV717901, BF575607, BF969450, BF000473, AA843923, BG249711, AA780345, AA939270, AI685859, BF576378, W52892, BF700176, AA807190, BE646101, BF218108, BG248888, N28480, AV715741, BF594772, AI935738, AA281061, AW103775, AI457505, BE568326, BE539291, AA189078, BF246637, AI740454, BE940435, N40006, BE717042, BF575601, BF197495, AI949504, AI949150, AI290736, AI769527, AI148503, AI037950, AA811870, BF572194, AI192672, BF350678, BE464304, BF063489, AI719625, AI760764, BE940438, BG150551, BE940432, BE840932, BE090573, AI074039, N20179, BG249698, N29635, AA848075, AA130489, AI075851, AI307212, AA425060, BE550589, N29080, BF246714, AI767116, AW770775, AA442544, AI262147, BF196540, AI041779, AI912728, BF338319, AI183308, BF681084, N27273, AA463403, AA494533, BF697198, AI014837, BF665719, AW863641, AW383567, AA643362, AI492027, BF217629, AI358325, AA716188, W16681, AI375536, W59956, AI540281, BE091740, AA652626, AW236892, BE698675, AA659400, AI091421, AW301587, AI653544, AI825196, AI028630, AA702393, AI161205, AI359909, W76643, AA976032, AI033669, AI741890, BF831233, AI922549, BF224378, N79510, AW085689, W31366, AI913104, BE086828, BE086824, BF432106, AI268291, BE940433, AI453388, W17377, AI190469, AA191181, W61271, AI262152, BE086820, AI028637, W95199, AI674288, AW975907, AA063022, BF001882, AW513091, H07055, AI191426, AA063152, AW198002, AV709498, AI474493, AW235217, AA126755, AI141489, AI699037, AW058534, H97135, AW449428, AA035087, AI656545, BF431442, BE698692, AA126770, N27285, AA136488, BF247821, AW294975, BE086761, W61272, BF739833, AW236689, BF246235, BF478199, AI339167, BE006687, BF446170, AI934798, BF245534, AA062574, T61866, AA126752, AI656626, AI301763, W16707, BF082856, AI209031, W94764, AI492139, Z42934, BF804554, R33956, BE006688, BF239294, AI968864,
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HHEPM64	1033	844953	1 - 2006	15 - 2020	BE889945, BF984616, AV709309, BE379829, BE379898, AW968993, BG170493, AI810380, AV702275, AA489244, BE745864, AW820298, AI590596, AA689529, AA148559, BF031377, AW117995, BF679023, AA689472, AV727385, AW591400, BF221753, BE931743, BE065356, N51486, BF906580, AA714017, N59811, AV702699, AW820494, AA504283, BE065301, AA235159, AA731441, AI654450, AW440898, AV658259, BF593906, AI025597, AA165330, BE465436, BE932146, AI467938, BF594549, BF790813, AI453582, AW303506, AI911738, AI924898, AA576855, AI698946, AW976060, AV656675, AW367702, BE302388, AI375043, AI914146, AI523870, AW439270, BF822716, AW058152, AW304908, C01997, BE645722, AA235068, AW006733, AA620761, AW362335, AW118701, AI811734, AW014006, AI699423, AI401682, N72758, N53629, AA150220, R57302, AA447090, BF807809, N88816, AA897659, AI804715, AW661769, AW378559, AA625967, AW378619, BE172450, AA804668, AI278385, AC008772, AC020902, AC025442, AL049309, AC010630, AC008772, AC008772, AC008772, AC020902, and AC020902.
HHEQI04	1034	799533	1 - 733	15 - 747	AW971745, BE614230, BE613349, BE612945, BE622828, BE613070, BE613136, BE622931, BE622925, BE621911, BE620742, BE622868, BE614307, BE614237, BE618811, BE614451, BE620756, AW858525, AW858526, AW392670, AW861944, AW604723, Z99396, AL042551, AL119319, AW804686, BG114900, AL119497, BE695785, BG036465, BE965593, AL119324, AL119399, BE705903, BG178819, AW384394, BE705906, AW861889, U46341, AW577135, AW372827, AW858455, AW363220, AL134531, AL079683, AL119457, AL119443, AW877209, U46350,

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HHEQY60	1035	799535	1 - 721	15 - 735	AL046409, AW193265, BF677892, BG249643, AI284640, AI431303, AV728425, AV725423, AI754658, AF330238, AI133164, AV762098, AV740801, AV760777, AW303196, AI350211, AW274349, AV710066, AI345654, AI270117, AI613280, AI289067, AW301350, AW833862, AV762395, AW965008, AI963720, AW969629, AV719316, AF074677, AI334443, AW438643, F36273, AW502975, AI754955, BG236735, BF793766, BE895987, AL038785, AL119691, AV760937, BE047069, BF668217, AL138265, AV762139, AW276827, AI305766, AW972871, AW953071, AI064864, AW088202, AW977134, AV760042, BF965007, AA652764, AV763354, AV763971, AW029038, AA470969, AV764578, AW193432, AW021583, AW975425, AI679782, AV735370, BF337291, BF697673, BF684828, AA490183, AV729809, BF311000, AA649642, AI281881, AW472872, AV728928, AW872676, AL041690, AI471481, AV759172, AI688846, AV761106, AW467362, AW406755, BF241967,

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HHFBA31	1036	701991	1 - 1709	15 - 1723	AL530724, BE621654, BG027091, AL530723, BE874234, AV652803, BG121998, BE883342, AW953039, AV689335, BF507354, BE538434, BE549362, AW953041, AA741059, AI742183, AI742173, AW070895, AW005921, BE350744, AA278434, AI632986, AI140875, AL039115, AI346279, W74749, AA054466, AA613498, AI630177,

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HHFCI81	1037	847387	1 - 1040	15 - 1054	AA347550, R59620, AW304139, AI694030, AI189358, AI042275, AW016829, AI937796, AI589626, AI955051, AA056481, AI311843, AI364513, AW369991, BE669418, AA576723, AA770499, BE938137, BF790421, AA971844, AA894543, AA932628, H65993, AA908848, N64596, AI493990, AI497694, AA129972, H53120, AW028228, N79505, AI828900, AI457196, AW273764, AU156456, AI129685, AA927365, AI167221, AI124075, BG230727, AA935036, W25817, AV719847, H03497, AA922132, R72101, R68812, AL517170, AI129979, AI887056, AA347551, H01191, C21556, BF854211, BE552003, AU127770, BF184460, BF843467, BF750871, AA133530, AW006038, AA143779, AI828194, AI692252, BE049406, AI814910, AA811420, AV658391, BF542015, BF750895, AW055356, AA912037, AA013108, C05970, AW663334, AV659207, BF811415, AA128238, AW084381, AI368391, F00794, AA056647, BF989796, BF665475, AX018010, D12676, and AC015499.
HHFCN78	1038	638179	1 - 1387	15 - 1401	AI291851, AA347728, AA347727, F09277, R42866, H17448, AW119145, R58855, H85456, H17552, F11623, AL050310, AF061032, AL136504, AC004752, AL161442, and AL161442.
HHFCT95	1039	581059	1 - 1433	15 - 1447	BG166667, BE178272, BE880088, BF694895,



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HHFDN16	1040	598713	1 - 1807	15 - 1821	
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HHFEC39	1042	609873	1 - 1288	15 - 1302	BE178297, BE891680, BE178296, BE178286, BE177969, AI817262, BE178117, BE220165, AW025400, BE178101, AI377829, C06099, BE178000, BF940116, AI422898, AI089906, AA583355, AA971743, AA044947, AA044943, AI076496, AI299481, AI376081, AA427892, H98616, AA618566, AA532381, AI080656, AA884934, AW341785, AA730790, AI139706, AW139974, AA992454, N99650, AI094082, AA483691, AA482694, D62553, AA001089, AI205651, R80152, Z36959, AI692586, AW958955, F10610, AA516076, AI311975, AI313288, AI379372, AI348747, D62481, AI610907, AA513037, AI611925, AI784325, BF054671, D62330, BF054866, BF057878, AA149057, N71679, AA923038, AW969749, BF364372, R43511, D62106, D79281, N83844, T75442, BE168027, BE936283, F13013, BE043482, AI348789, D62153, BE168085, BE178420, BE177858, AL022726, AJ001971, AJ001972, AL022726, and AL022726.
HHFEN34	1043	701992	1 - 1144	15 - 1158	AA256085, R50364, R50025, AA365022, AU147162, BF813555, AA410788, AV763026, AV763058, AA228778, AI056177, BF750422, AV757289, AA602906, AI732151, AV764334, AW819125, AA176604, BG222875, BF766654, AW576490, BG250286, AW576191, AV764259, BF589824, BF675251, AA557945, AA169245, AV764001, AI792521, AI017251, AI340832, BE245576, BF681619, AA491681, AW021917, BE138509, AW516255, BF805088, AW054995, AI923050, AI267269, BE147833, AA622801, BF857377, AL042667, AL042670, AI792499, AI251576, AW020088, AA598605, AI053518, Z84483, AC010789, AC011465, AL033533, AF250841, AF223391, AC010092, AC000403, AC009079, AP001667, AC006536, AC011510, Z84480, Z94721, AL008730, AL109925, AC011738, AC006481, AC007262, AL049868, AL022239, AL391122, AL356103, AC074331, AL135791, AC010205, AC009502, AC004820, AL445258, AC006084, AC018634, Z97054, AC005409, AC004475, AC008155, AL138755, AL121958, AL162573, AL355358, AL021026, AC005230, A91686, AC004837, AC025593, AF126403, AL031591, U91322, AC002531, AC007739, AL136984,

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HHFFZ01	1044	847388	1 - 2032	15 - 2046	<p>AL521424, AL523210, AL514620, AL536205, AL525645, AL537131, AL521425, AL523209, BE739509, BF965558, BG031889, BG258324, BE891149, BF311286, BF530602, AI057627, BF182863, BE560984, AI479627, AL514619, BF037516, BE314805, AI859259, BE297709, AI523551, AI660477, BE797143, AI885132, BF038307, BG027266, BF966086, BE388115, AW958486, BE382803, BE560800, BG115029, BF206872, BE268774, AW958520, AW170144, BF345159, AA779831, BG104568, BE276916, AA699996, AW001491, BF793361, BG108512, BF691744, AW955061, AL527427, BE739244, BE314640, AI191325, BG122405, BE548451, AA779172, C18348,</p>

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HHFGI71	1045	663531	1 - 1576	15 - 1590	<p>AA953588, R43310, AA467750, AA827779, AA279155, AW958897, AW968168, AA129446, BF435396, AA358432, AI632259, AA610688, AV739452, AW275510, AA742286, BE019289, AA742299,</p>

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HHFGJ54	1046	731870	1 - 1697	15 - 1711	AU131256, AU121650, BE266277, BE742919, AW960404, AW629345, BF000553, BE504107, BE744645, AW515639, AW274021, BF677064, BE219751, AA129710, AI808035, AW242065, AI185668, AW014984, AW571901, AI092687, AA884894, W73671, BE744137, AW612719, AI949723, AA130552, AI808859, AI808036, BF056952, BF434501, AU153833, AI393252, AW014415, AI218938, AI340027, AI949271, AI917650, AW301286, AW803958, AA693604, AI932541, BE964325, AI022045, AW803956, AW964197, N53667, AW341806, AI039071, AW292147, BE764751, W56523, BF221606, AA489394, AA725874, W73623, AI797577, AW517830, W56587, AA342548, R02181, BF839205, AA133276, AW364955, AI017031, AA733025, BF001499, AA279068, AW241484, AA804595, BF969307, AA664956, AA357318, BE466157, AV721907, T93900, N73032, BF091798, AV682045, AV738773, BF970939, AI916642, AA331860, AA404545, AA316087, H68702, AW242977, AA332308, H53517, AV661347, AV661226, BE706349, AV741230, BE706344, BF911617, BF130696, AI766502, AV744996, AI370338, H46903, BE741257, AA089818, BF132948, W85768, AV688239, AV688228, T12052, AV688225, AV688264, AW582396, AA010246, N99805, AV687130, AV687136, BF970872, N72447, H02085, H91795, AI581389, BE817821, H45572, AA328992, AA194127, BF085220, BE766572, AK023161, AK001540, AK001752, AF161431, AK026217, and AK021517.
HHFGL38	1047	833063	1 - 2750	15 - 2764	BF898289, BF898273, BF898282, BF902138, BF929706, BG223297, BF933865, AA604995, AW068316, AP001717, AL121928, AC008403, AC008569, AC004089, AC005015, AL121890, AC006130, AP001670, U52111, AJ009611, AC002483, AC006449, AL121845, AC005231, AC011465,

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HHFGR75	1048	654845	1 - 1005	15 - 1019	BF927007, BF902263, R94385, AA747028, AW204277, AA693816, BG025199, AW833992, BF875339, BF131481, AV757180, AI803771, BF988717, AA601333, AW207104, AA601376, AW887515, AA551105, AA428270, AA601529, BF880881, AL036334, AV755245, AW148964, AI270280, AW850427, BF222681, AV712770, C14144, AA688303, AI668951, AI420747, AV726516, AW452106, AV732982, BG180081, AA533066, AW850448, BF677521, AA988149, AI348780, AW963489, AW268920, BF679095, BE465042, BF110644, AW770726, AA577706, BF906747, AW006124, H05742,

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HHFGZ23	1049	721653	1 - 1265	15 - 1279	BE711198, BF084229, AW273360, T53829, T53962, F04982, F02614, F03408, BE711189, AA347899, AW752512, AA347898, AW795444, AI086283, AW886473, BE161499, AA856815, AA287618, AC074331, AC008555, AL160036, AC006070, AC007364, AL133246, AL132657, AC006484, AF011889, AL139009, AC006440, AC006974, AC006948, AF205588, AC007344, AL122003, AC008277, AL390738, AC006239, AC016948, AP001698, AC007671, AL157360, AP001603, AC006379, AL096868, AC022078, AC006369, AC007842, AL137067, AL049796, AL136504, AL121868, AC023430, AC005823, AC004616, AL022395, AC005826, AC010198, AL031466, AC005062, AC006026, AL163853, AL132777, AL353706, AL121658, AC005040, AC006362, AC005104, AP001693, AP001710, AL031671, AL049834, AL133299, AP001721, Z94721, AC025920, AL118497, AC011815, AC024162, AC084732, AL109809, AL049176, AC022392, AC007000, AL354835, AL157818, AC020550, AC007450, AC026197, AL353643, AL121753, AC003109, AC011500, AL356421, AL109799, AP001748, AC006197,



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HHFHG26	1050	608250	1 - 710	15 - 724	AI738528, AF307337, AC021553, and AC021553.
HHFHM47	1051	638181	1 - 845	15 - 859	W01745, BF965341, AW079809, AA577824, AU145521, AI080618, BG010084, AA626632, AU147529, BE675695, AL037910, AI433104, BE796439, AV756726, AV764523, AI610376, BF899670, BF899672, AA602951, BF899671, AA193205, AI821785, BG056174, AI821714, AI792133, AI791913, AV762220, AA484228, BE541237, AW248523, AW270619, W79504, AW589257, AV710762, AI583106, AA708322, AA315361, AA614254, AI568683, BF674256, AI623764, BE538259, AA747276, AI356440, BG109162, AC004867, AC006112, AC008264, AP002534, AC012627, AC004983, AC003029, AC005971, AC083871, AL021878, AL035398, AD000092, AL121712, AC005995, AC008372, M89651, AC005098, AL137139, AC011310, AC020934, AC008083, AC011475, AC015971, AL022721, AC005520, AC008736, AP000141, AC005497, AF029308, AC020663, AC021752, AL034549, AC005159, U85195, AF053356, AC005740, AL133163, AC005783, AE000658, AC004943, AL133370, AL078461, AL133516, AL133153, AC006019, AC002996, AL117381, AL136300, AC018637, D87675, AP002535, AC002984, AC005666, AP000555, AC022407, AC007151, AC004019, AC009228, AC004971, AL117382, AL136223, AC006449, AC008753, AC008392, AC010326, AC007912, AL391259, AL121845, AC058791, AC007956, AC011811, AP000557, AC002316, AC005736, AF205588, AC004156, AL049780, AL023575, AC009516, AL034372, AC005081, L34079, AC020916, AC005005, AL356020, AL023807, AC004895, AC002457, AC027644, AP001694, AL021154, AC007688, AL022476, AP000959, AL035659, AL353574, AP000088, AC005844, AC011464, AC011470, AC007687, AP001710, AP001711, AC002314, AC009086, AC005212, AC000052, AL031005, AF207550, AC009247, AL162831, Z85987, AC010422, AC011495, AC006023, AL117330, Z99496, AC006211, AL096819, AC005071, AC008119, AC002377, AL138807, AC009481, AC004655, AC008762, AC007450, AC005544, AL035587, AC004859, AC002301, AC004686, AP000501,

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HHGAA76	1052	767745	1 - 1918	15 - 1932	AL521782, AI970683, BF960821, AA525027, AI114469, N86646, AW861987, BF960221, AI696660, AW994740, BE068838, BE068842, BE068841, AC016554, AC008783, AC011815, AL133282, AC004748, AP001674, AP001538, AL035687, AC016398, AC026197, AC020755, AC024162, AC025920, AC017082, AL353573, AL358336, AL354750, Z83841, AC018360, AL050308, AL121575, Z84814, AP002535, AL163210, AL135960, AJ131016, AL121949, AC002485, AL133224, AL031286, AL121983, AP002532, AC007282, AL355871, AL109659, AC006070, AL133472, AL355612, AC004453, Z80107, AC006928, AL158206, AC004384, AC006557, AJ271735, AL163282, AF064865, AC022215, AL035427, AC006371, Z81365, AC018832, AC023472, AL117337, Z96074, AL163248, AF003529, AC005509, AL096803, AC020603, AC005189, AC023478, AL390023, AL139109, AC007403, AC009289, AC022274, AC003106, AL035400, Z92547, AL359641, Z99497, AP000500, AL356244, AC007528, AC018641, AL137145, AC006450, AC008009, AL163853, AC008944, AC008750, AC002065, AL022310, AL031661, AL132994, AC069298,

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HHGAD46	1053	812646	1 - 1288	15 - 1302	BF805186, AI570568, BF805137, AW341487, BF364828, AI827050, BF810817, AA358477, BF810805, BF812146, BF810813, AW298668, BF812138, AI792189, AA330586, AI015693, AI733599, AI672488, BF769701, H16914, BF771890, AW193262, AI244716, AK026431, AP000353, Z92546, Z92546, and Z92546.
HHGAT09	1054	603526	1 - 531	15 - 545	AA504142, AW007509, AW007498, AI800822, AU156741, AI735575, AI760060, AW264207, AI336432, N21208, AI339620, AL043955, AI758875, BE539256, AL532592, AA745813, AI829460, AU157584, BF967990, AI092831, N23109, AU150875, AI087213, AI186863, AA886556, N52077, AI185824, AA025059, W42786, AI355810, AV760393, AA135503, AA573747, AI265852, C00070, W86230, AA417943, AA779060, AI382869, AA583154, N23335, AA628470, M85317, AA454010, AW275410, D57180, AA025058, BE769005, AI298843, BE768981, BG036384, H88704, AI698306, H88659, H77295, AI016827, BF692532, D56287, BF573537, AW021130, BF082745, BE905998, AW103949, AA476702, BF082661, N28726, T10851, AA451801, BF698928, AI250664, AA577545, BF993632, BE766904, AA531354, BF057509, W86229, AI272969, BF029164, BE813924, BG163618, BE138886, AW996783, BF032834, D31216, AA181208, AA155840, AL513865, AF000231, AC009433, and AC027736.
HHGBC21	1055	840455	1 - 1127	15 - 1141	BE738423, BG122663, AU145662, BE619286, BE737812, BE780075, AW118940,

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HHGBF91	1056	603907	1 - 642	15 - 656	AA143060, N29137, AA291374, BG149731, AW514373, AA143178, AA464138, AI302147, AA405883, AA405192, W69258, AI860326, BE669475, AA402976, BE502869, AA403301, BF432906, BE502320, AA464205, AI248813, N21175, BE464730, N51475, AI076664, AI076530, AW139524, AI289509, AA548070, AW514516, BF940515, AA953986, AW954188, AW205680, N53616, U20896, AR003670, AC004623, AC004623, and AC004623.
HHGBG63	1057	824060	1 - 784	15 - 798	AA194086, AW817526, AW861402, AC007404, AC003102, AC006064, AL139014, AL096791, AC011895, AC004749, AC003037, AC009016, AC006349, AC004812, AC008569, AC012085, AC007850, AL096701, AC006351, AL158196, AC006028, AF053356,

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HHGBV02	1058	604912	1 - 1207	15 - 1221	AA001738, AA974578, AW304038, AA262540, BF222066, AA001807, BF807355, BE041514, AA923470, AU128696, AL136981, AC004527, AL163204, AP001466, AL078614, AL139008, AK001448, AC004527, AC004527, AC016147, AC016147, AC016151, AC016151, AP001466, and AP001466.
HHGBW55	1059	638183	1 - 424	15 - 438	AW272490, AW006162, AA608773, AA676670, AA148109, AA400188, AI150151, BE672864, AW003573, AA913954, AW207216, AA905227, AI208940, AA382744, AI654709, AW241479, AI214730, AA969339, BF475264, AW235898, AW207054, AI635370, AA381924, AI913386, AA400346, AA381526, AA905243, AI554052, AW274535, AW161786, AW665715, AW162047, AW162303, AA146931, AF060862, AC018751, AP000553, AF190624, AC018751, AC018751, and AC018751.
HHGBX88	1060	638323	1 - 428	15 - 442	N99132, AI041830, AI129136, AI436024, AI564498, BE889649, AI075459, AW024806, AI309251, AI146267, AI127098, AI458822, AA293157, AW001584, AW166391, AI355605, AU150223, AI935253, AA772282, AA576819, AI985999, BE047473, AA132495, AW194398, AI269874, AW194432, AA808676, BE905498, AI092593, AI753752, AA865436, AA448661, BF591266, AI952536, AA480350, AA677056, AW752996, AA508681, AA243470, AA235595, AI190627, AW087696, AA587274, N33067, BE544506, BF850879, AI039846, AW852038, AI241403, AA063545, AI193887, BF979921, BF063903, AA858103, AA928333, AI745599, BF437543, AW295690, BE741043, AI266411, AI347772, AA872314, AA235764, AA035675, BG251821, AW006751, AI372889, BF437781, AI432095, AA858124, AI084252, AA768678, AI244931, AI678904, BF063319, AA493526, AI190266, AI214998, AA551977, AW852250, BE538756, W56302, AA025879, AA410738, T57145, N78720, AI675386, AI685583, AI668984, H28899, AI970685, BE695682, AW074457, AA704400, R88206, AA302456, R88098, AA303203, AA860648, AA132603, AI866072, AA737145, AA327958, AA304590, AA554990, N42134, AA709421, AA319989, AI220881, AI445006, AI803173, H30167, BE614284, AL135262, W52138, W55874, AW884367, AC006405, AC006405, and AC006405.
HHGCA26	1061	610265	1 - 528	15 - 542	BF844340, AC004881, AC016091, AC004881, AC004881, and AC004881.

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HHGDA81	1062	782757	1 - 1046	15 - 1060	<p>AW888225, BG179776, AL046940, BE909010, BG028046, BE257058, AV704518, AV707665, AA115296, AV706611, BF968134, AV709320, AA115271, BF675963, AA127752, AA482432, BG028121, AA127675, AI719551, AI754750, AW961918, AI817764, AI084658, BG118898, AI921925, BF667059, AI480051, AI720847, AI936895, BE881224, BG035454, AI978596, AI973004, AA482579, AA575879, AI754633, AA292209, W39064, AA927727, AA009997, AA452021, BF593800, N94401, AI142422, W29031, BE810269, AI423383, AA890468, H63931, AV749480, AA988949, AI096965, AA894599, AI050691, AW378187, AV746711, AI086800, AI139378, AI678930, BF130110, AA399442, AI051332, AI125344, BF793328, AI081394, AI359024, AI378588, AA772301, AW043773, AA700495, AW771084, AI084108, N33460, AA911305, AW378172, AI949335, AI300324, AI270397, AI344414, AI337951, AI278254, AA558222, AA861332, AI359034, N20819, AI193787, AA916406, W04346, AA902353, AA425936, AA643567, N30542, W76634, AI057222, AA938581, AI497697, AA028054, AI147178, W30996, W69873, AL523500, BF449052, AA470118, AA425645, AA047051, AI344638, AA532699, H28269, N32467, H63932, H77909, AI873123, AA702306, N21060, AA577542, BF432294, AV704680, H28220, AV713038, AA503903, AA740273, AI085350, AA659072, AI168251, AA039609, R96127, T36061, N67698, AA494013, N27140, AI568058, BE778760, AA421453, AA009998, H63529, AW337863, AI873124, BF763474, AW005163, AA421485, AA960770, AA531176, AA856783, H63530, AV751492, BF752804, BF948183, H85295, BF092572, BE767177, AA580353, BE706846, AA558171, AI217059, N40077, AA463191, AA463190, R01193, T94569, AA635123, H29872, BF751352, BF764314, R77247, H52471, BF765576, AI669786, AA830715, AI803744, N89808, BF752791, AA844445, BF764311, R55436, H54201, AL523501, H29968, AA412390, BF092554, T32427, N27892, AA757759, AA724652, AA768259, H84289, AA330278, H85448, H06453, BF752225, BF752233, T56761, BF844824, BF351642, AA301933, N56549, AA861336, N98765, H86001, R54987, W73027, H85729, AV706575, N40893, AI214666, AA384421, BF215850, BF765568, H84831, BF313506, T53378, AA718987, H11502, AA583602, R01305, AA064779, BF765582, C03990, T93970, AA083961, BF752813, BE763108, AA018728, R77248, AI276820, T56762, T93294, AA326702, AI025994, H84970, AA384049, H52470, AI919094, BF844844, Z43917, Z28779, AA384100, AA129077,</p>
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HHGDI12	1063	747680	1 - 1226	15 - 1240	AA458764.
HHGDR05	1064	610266	1 - 812	15 - 826	AL121714, AC016543, AL121714, AL121714, AL121990, and AL356475.
HHGDR92	1065	840454	1 - 1160	15 - 1174	BG031279, BE281287, BE612912, BG120994, BF690074, BG031542, BG033015, BF571990, BF978805, BE612464, AA418465, AW088738, BE251013, AW162459, BG032058, AA478902, BG180802, AW665916, AW027570, BF740159, BE787600, C06298, AA256442, BF983300, AI553725, AW104070, AW150700, BE302194, AA424682, AI453283, AI394190, AW967255, BE857391, AI880202, AW006476, AA070918, AA536209, AA121970, AA069007, AA478783, R53885, BF061513, N66990, H74275, AV706699, BF821489, AA074811, AW439403, T67508, AI539331, AU146289, AV727745, AI986287, BF725810, AW024935, BE856213, AA074125, AW246556, AA341045, H06813, AI093991, AA829837, AA424576, AA741354, AI056006, W37525, AU119766, AA431724, AU160164, AA715122, AI299761, AI281286, BF834728, D81005, AA535723, AA069071, AI122874, BE393744, AI627208, AI272920, AU126237, AA526967, BE514456, H74276, AA644159, F31598, BF894176, AI096641, BG057059, BG024695, AA573916, T29996, AA076067, BE895875, AA181656, AA668623, H49662, AW874104, BF739775, H46821, AA310480, AW589578, BF090208, D53917, AU142991, BF796351, AA076025, N81150, H06814, AA345698, BF894198, AA074770, BE843355, AA340955, BE791525, BE094760, AU146025, AW408844, BE700261, F24941, C15256, BG177995, AW302536, BE514543, W37526, BG248475, AA635763, AW769653, BG120319, W07651, AA830568, AA807561, BG253748, BE270076, AA301879, F31661, AW089147, AA299619, T03546, AA121969, BF890881, BG168129, BF034085, BE884549, BE251618, BF432530, AI868730, AA303117, R46571, AI051638, AI225017, AW162450, BE514397, AA327329, BF312936, Z40273, AI419683, AA169575, AU120133, AI905100, D53613, BE149787, BE694833, BE897651, BE536733, BE939725, AA181625, AW905723, BG121504, BE262665, BE295402, R53869, AA169888, D54082,



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HHGDS56	1066	663379	1 - 1488	15 - 1502	AL038785, BF684828, AW972871, BG029216, AI625244, AI679782, AW088202, AI064952, AI962050, AW029038, AW088616, AV763777, AI570261, AW162049, AI929531, AW969698, AW969694, AI339850, AA522942, AV729947, AV728632, AV719311, AV728309, AV719316, AA523815, AI917271, AI567674, AW079659, AI368745, AU145462, AU148742, AA713815, AI918421, BE787738, AA837084, AW977134, AI890923, AW080134, AW166815, U51696, AI133636, AI251002, AV710306, AI469003, AW104748, C06327, AI049722, AL120674, AW440836, AV752696, C05755, BE389903, AA826303, AI251436, AA482711, BF677892, AL046409, AI284640, BE390977, AI963720, BE277602, AV709064, AV760777, BF668217, AA582911, AA768905, AI334443, BG249643, C06458, AI608626, AI613280, AW075511, BF211188, AW193265, AA504871, AI431303, AW965008, AL045053, AL119391, AF330238, AV762098, BF241967, AA483068, AW303196, AV740801, AW274349, AV763354, AA828704, AA581903, AW301350, AA715217, AI350211, AA312845, AV760937, AI281881, AI610159, AV761362, AV762395, AW500125, F36273, AA767376, AV762139, AV710066, AL042853, AV734666, AV761489, AW419262, BF940837, AU145499, AA634146, AA132833, BE047069, AW438643, AI358571, AI345654, AW473163, AA550758, BF131362, AA491814, AI270117, AI064864, AW833862, BF475381, AI471481, AV728425, BG254180, BG036934, AV763971, AI708009, AV725423, AL138455, AV763449, BE350475, AV735370, AA610491, AV762111, AV652936, AW276827, AL041690, AA531372, AV763255, AV761056, AA720702, AW974109, AV729809, AA113186, AV682003, AI289067, AV764578, AA190911, AW975425, AW020992, AW406447, AV764307, AV763540, AV761786, AI254615, AW338086, AA584201, AW021583, AV759274, AW963497, BG222267, BF130107, BF965007, AI061334, AV762050, AI619997, BG109996, AI341664, BF029969, AW327868, AU147800, AI688846, AW472872,

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HHGDW65	1067	825652	1 - 800	15 - 814	AA736485, AL021938, AC020754, AC020552, AF111167, AC005952, L44140, AC010422, AC005015, AC011464, AL137222, AC027319, AC005193, AC005318, AP001719, AC011455, AC004089, AC007240, AC005377, AL139396, AC005906, AC007201, AP001727, AC021999, AL138743, AL035410, AC002565, Z93015, AC004883, AC005874, AF134471, AL355392, AC024075, AC005722, AC020904, AB001523, AC018511, AC010618, AC004824, AC005098, AC004166, AL138756, AC009362, AL035090, AC007637, AC006205, AL035086, AL021394, AC083866, AC008569, AC009244, AC002477, AL136227, AL136227, AL021938, and AL021938.
HHLBA86	1068	846326	1 - 1289	15 - 1303	AA309270, AA620377, AC002074, AL136230, AC022212, AF241728, AF241729, AL034424, AP001538, AP001674, AC020637, AL352977, AF130343, AF106564, Z95328, AC004384, Z98255, and AC068035.
HHNAC56	1069	562030	1 - 1508	15 - 1522	AA309467, AC004088, AC002982, and AL353680.
HHPBG90	1070	603908	1 - 1558	15 - 1572	AA876227, BF346081, BE262516, BF969066, BG057682, AI563989, AW964954, BF339478,

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HHPDE28	1071	877640	1 - 1617	15 - 1631	AW606856, AW393530, AW373617, AW373766, AW606852, AW373625, AW373767, AW373753, AW373740, AW373748, AW373760, AW393545, AW373768, AW606855, AW629171, BF110245, AW104300, BF512135, BE543453, AW364046, AW006750, AI494013, AW976164, AI375165, AW821271, N80089, N64655, AW860112, BE179095, AW373745, AA282914, AW606838, AW393528, AW393553, AI911014, AA743489, BE161177, AA809630, T57349, AW373751, AA897658, AI919185, AA714790, AW384958, AA757760, AW300466, AI433574, AI733321, AW673053, AI791660, AA946953, AI733452, M85464, BF878846, BG231867, AI951965, BE156403, BE156202, AA938236, H90881, H64113, BE156205, AI452403, AI333592, AA861406, AI524521, BF888049, AI927861, AI334099, AI473716, AI184319, BF755197, AU157231, AA363197, R10327, AI022386, BF996926, AK026326, AC073102, AL360078, AL021939, AC017006, AC008071, AL121593, AC002543, AC020914, AC005015, AL391385, AC055740, AC020908, AC006994, AL137078, AC006112, AC006263, AL137016, AC006116, AL121983, AC005482, AL356913,

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HHPDJ11	1072	827289	1 - 1888	15 - 1902	AU117539, AU139345, AU120688, AU137609, AU139649, BE891936, BE890293, AU138835, BF699821, BF207632, BF701557, BF699644, BF701157, BF694110, BF210329, BF669500, BE539424, BF699125, BF694156, BF700075, AV655567, BF699161, BF696264, AA928678, BF212827, BE970018, AU145051, BF699953, BF698645, BF667809, BF669186, AV753477, AW182646, BF700756, BF664722, AA909963, BF208076, BF694252, BF698112, AU158384, AU145145, AA932204, BF696450, AA909961, BF699390, BF694188, BE767576, BE048717, AA233080, BF185024, BF697249, AA922947, AI336216, BF210981, BF699748, BF666616, AA922946, AU146687, BF695664, AW081307, BF664869, BF240428, AI433872, AI493179, AU157305, BF695619, BF698414, AI245931, BF697507, BE566520, BF697180, AU155683, AU156298, BF700543, AI817788, BE865877, BG105515, BF107173, AI373318, AU145776, AU155688, AI373111, AW472861, BF211960, BF132157, AU155681, AW629869, AI049514, AA670204, BF696786, AA947133, BF477360, BE379887, BF696914, AW022288, AA827770, AW675433, BF789947, BE047284, AI476063, AI888471, AI358468, AI888010, AI355877, AI587384, BF210915, AI619918, AW517286, N59174, AW956421, AI266210, AA610540, AI625385, AA976881, AI127888, AW339040, AW269052, BG027006, AI268557, BE972528, BF665148, T62565, BF792509, H03654, BF690909, BF107051, AA015789, R24006, R35227, D11573, R79709, AV650324, AI432041, AW955221, BE787733, T36156, BF029384,

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HHPDX86	1073	731966	1 - 2040	15 - 2054	
HHPEA17	1074	562773	1 - 989	15 - 1003	AA601364, AA088873, BF814027, BG251983, AI992192, AI969288, AI671500, BF919782, BE048991, AA417048, BF930577, T60681, BE147416, AI783494, BF870164, AA584088, AL038936, AA749428, BF844400, BF844397, AA657943, AA417179, AA828767, AU146344, AA484373, BF891210, BE144864, AA715805, AW962335, AW838719, AI791227, AI732911, AA191659, AI065038, BF915687, AA812141, AA351235, AI365624, AA774780, BF832193, AI818231, AI381253, AI613389, AA807583, AW861303, AW901478, AW162324, AA629874, AW848774, AW022897, BE271287, BF985748, AA720677, AW970030, AA722039, AI792578, AA657905, AW977573, AA811208, AC005730, AF053356, Z97054, AL121890, AC011455, AC008736, AP001694, AL135839, AC005236, AC018644, AC006483, AC004826, AL050335, AC016602, AC007676, AC003041, AC005020, AC020955, U91318, AC020934, AL049636, AL354720, AC005102, AC005899, AC019227, AF196779, Z97055, AC007226, AC015651, AC005520, AC027644, AC005840, AC006312, AC020904, AC002301, AL096791, AC004132, AC009155, AL033526, AL031666, AC004922, AL353194, AL159977, AF165926, AL163249, AC007216, AC002350, AL031295, U47924, AL024498, AC006345, AL353807, AC007199, AC007358, AL022320, AC004019, AL117381, AC008372, Z82171, AC005003, AL049745, AP001725, AC073593, AC005081, U91323, AC005562, AC002565, AC006329, AC008738, AL050348, AC004813, AC008950, AC004089, AC000379,

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HHPEB61	1075	658693	1 - 1818	15 - 1832	AI655524, AA991482, BF740151, AI655504, AI557294, AA834877, AW957589, AI656485, AI424536, T33605, AW965849, AW901169, AW852249, H29620, BF899104, AA548663, AI702498, H20763, BE858958, T33606, F10522, R43685, T75232, H29713, AA594598, H20762, AI469155, T17070, Z45603, Z41287, H75537, T34387, T03667, H69032, R60872, AA662311, AA524229, AA508695, AA948307, H18479, AA515728, BF594216, T34386, AI636734, AA167792, AW411059, H82653, AA937766, AL136125, AC007956, U95740, AC034242, AL021707, AL136170, AC018719, AL157791, AC005520, AL161670, AC007404, AL035458, AP001748, AC005081, AC004634, AC005225, AC008969, AC008569, AP001725, AC021036, AC000353, AL049872, AL133153, AL132639, AC010326, AL353574, Z94056, AC005484, AC005899, AC020916, AC004867, AC006388, AL020997, AC008062, AL136418, AC005952, AL109930, AC007546, AC005399, AC007345, AC005562, AL021453,

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HHPFP26	1076	753269	1 - 2338	15 - 2352	AW955777, AU127795, AV699578, BE621969, AI346748, AI281940, BE005208, AA524503, AA916758, AW449058, BE467769, BE464881, AU151450, BF514115, BF000038, AI634820, AI523530, AW511445, AI862532, AI949670, AW970765, AA608828, AI857780, BF571416, AW295536, AI377542, AI093088, AA287191, AI151251, AW614038, AA287100, AV699485, AA448285, AW770401, BF737449, AA878147, AW337811, AW593438, AI094118, AI679170, AU129292, AA824653, AA126509, AI335819, W17300, AA724997, AI926067, BF445215, N89777, AI376326, BF898929, AA693394, H24089, W20017, AA780601, AI262511, H95444, AW023522, BF330087, AW605999, AA651916, AA708871, BF968034, AW380437, H95445, R43926, C03566, AW452210, R18816, AA334867, R84237, N91375, AW020824, H22911, W24107, D62482, N91929, D62471, AW630974, BF946583, BE708592, BF195756, AA658355, AI962246, AA282731, BE967075, AK022861, AK023008, and AL163853.
HHPFS11	1077	570807	1 - 1036	15 - 1050	AL139100, and AL133232.
HHPFS15	1078	847389	1 - 732	15 - 746	AA760667, R50794, W47654, AV684282, AI217022, T66042, R60930, AI753012, AA836134, AA648318, T39348, AI817257, AI872835, AV697076, AI949817, AI873940, AW576200, AA723333, H09555, AA813966, AA460227, AI283015, AI128848, AA453575, AW518085, H05041, AW008347, AW264526, AI308930, H29534, AA853993, AA831949, C75225, R44846, AI204139, AI185635, N69593, AA806827, W39072, AI572097, W94093, AI090340, AI077839, BF108988, AI122620, AI762780, AA399700, N67949, W84523, AA682222, AI126069, AI015309, AA436691, T23857, AI032314, AA991167, AA888831, AI001871, AA448304, AI337575, W60064, AA825875, N90996, AA442157, AI819440, AW149503, AA868417, AW008552, AA777074, AI247888, N72853, AI374877, AA868419, AI335848, AA778718, AA780358, AI268070, AA736496, AA547980, AW009752, AI033324, AI887423, N26106, N79031, BE464663, AI538581, AA502622, AI131143, H99358, AA622569, AI696807, AI139922, W69745, AI190806, N21632, AI200293, AA716628, AA775646, AA593568,



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HHPFS18	1079	829347	1 - 2594	15 - 2608	AU118373, AU117678, BG109189, BE885268, BE785506, AW191018, AI655728, AW370349, AW847761, AI813664, N62925, AW958196, AW236807, AI954660, AW603675, AU144958, BF109666, AA845588, AA582935, BG057249, BG231680, AI469980, AI744489, AI743760, AA694188, AU160565, AA829899, AI143187, AI732941, AI954683, AI990875, AI963317, AI791260, AI480299, AA971443, W03545, AI337211, BG231885, N77052, N20415, AA743667, BG252288, AA449646, AI833319, AI709151, AW179064, AW183952, AI311468, AA424170, AI690530, AA422107, AA449483, AU158868, AW352158, AV726085, AI028472, AA451736, AI139928, BF086853, AW370329, AW614165, AW369655, AI910710, AA464142, AW388866, AI825751, AW474433, AI287986, BF086850, AW388874, AI816822, AI804554, AW074166, AI351539, AW389059, W56495, BF913453, AA523888, AW388950, AA962101, AW388922, AI524492, H17861, AI399853, BE042509, AW352145, AI363825, AA730400, AI025020, AW388819, AW370346, AW370336, AA233374, AW370345, AW389038, AW388834, AW388934, AW388852, AW388750, AW388868, AW388937, AW389091, AI362003, AW352161, R98015,

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HHPGH34	1080	535780	1 - 1053	15 - 1067	BE311660, F08743, F23327, F08648, AC004841, AC004166, AL050335, AC008569, AC008616, AC005098, AC010271, AC010150, AC004686, AC005071, AL022238, AL022323, AL035684, AL034405, AL031276, AC011495, AC020916, AL161731, AC004821, AP001753, AL121601, AC009087, AC006211, AL117381, AL135978, AC027319, AC009244, AC010422, AC006101, AL136137, and AC004024.
HHPGU74	1081	821486	1 - 2452	15 - 2466	Z92547, AP001719, AC003969, AC025569, AC025569, AC011612, AC011612, AC011053, and AC011053.
HHPGU87	1082	658694	1 - 2535	15 - 2549	AV652431, BF971240, BG252275, AV726996, BE893830, AW663976, BE568219, BF185719, BE884097, AI670875, BF669617, W73272, BF679056, W72944, BE856478, W60881, W91922, AA984307, BF382687, AI380931, AI804661, AI275607, AW051332, AA479129, AW088395, AA578689, AI803729, AW195327, AI400245, AI824185, AI024685, AI126637, AI148084, W92044, AA261827, AI244894, AV652594, AI446522, AI393616, AV727482, AA262475, AW269360, AI721041, AI138623, AV652529, AA978077, AV652347, N59855, N64625, W91923, AI598074, H25940, AV652310, AA847779, AV725689, AI040460, AA233676, AA631241, AV652225, AA631862, AA594767, AA261899, AI753061, AA262536, W68420, AA704181, BE766443, AI767983, N59848, AI301340, M62032, AI244546, C17483, AL119587, R53247, AI084826, W68518, R49220, N67397, BE777798, AI026891, AW964200, R55197, R35423, AI587197, BG260885, AW964202, AI911548, N80204, F09375, AA875909, AA628291,

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HHPSE42	1083	600317	1 - 1054	15 - 1068	
HHPSE03	1084	580839	1 - 1532	15 - 1546	AC002040, AC002040, AC002040, and AC002040.
HHPSE55	1085	735562	1 - 1378	15 - 1392	AL536942, BE548158, BE616830, AW958533, BE313806, BF701742, AW131739, BE870702, AI936140, AI873483, AI304360, AI950915, AI241135, AW341617, BF919906, AV762271, AA977495, AI089670, AW083460, BF692986, R76461, AI434004, C16848, BE252098, AW103150, AA832329, AI687659, AA506456, AI367069, AA594648, AW972387, AA502016, AW972584, AA503348, AA878304, T89067, AI138816, R76774, AA356158, H01610, N90608, AW044382, AW389772, AW389777, AA380760, AA970110, AA912912, AA324782, BF115133, BE838596, AA678640, AA918356, AI565853, BF155376, and AF171017.
HHPSE70	1086	709665	1 - 1236	15 - 1250	AL536179, AL533946, AL533947, BE613134, BF343559, AV746302, BF966793, BF526420, AV723437, AI928515, BF035547, AW753303, BF034426, BF340849, AL037012, BF940225, BF725404, AV722341, AW291377, AV745305, AA446330, AI332363, AA443173, AV746253, BE326680, AI989804, AI089825, AI924756, AI423344, AW264140, AV745498, AI655012, AV745371, AI418141, AV745442, AI831023, AV746250, AI815927, AV751398, AV745783, AI598128, AV746136, AI685430, AV746047, AV745494, AA131952, AV724999, AI050790, N51854, N62627, AA131865, AA781772, AA293039, BE244781, AI816187, AV745512, AW162757, AL537797, AI167936, AV726539, AI003401, AI143672, AA148523, AI625601, AI445688, AL037633, AW900480, M62252, AA293431, AV745509, AV746086, AA457374, AA148774, AW892804, AW051680, H08939, AI262177, AW296899, AA446510, AA604202, AA719581, N78398, T15711, AV745470, H89097, Z44301, H08855, AV745322, H83746, BF530020, AW090772, AI880020, N45508, AA463482, D58472, AV746088, T33816, AA349403, R26136, BE612567, AA781761, AA018269,

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HHP SH74	1087	638185	1 - 2093	15 - 2107	AL040575, AL530413, BF969375, AV649284, U28688, AW953650, AV653323, AL041491, AV726782, AI003790, BG111282, BF439614, AW770872, BE734789, BE541123, AU154314, AL045483, AU154291, AU152036, BF684279, AA228073,

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HHPSL14	1088	847390	1 - 1160	15 - 1174	BF337594, AI565770, AI479945, AI193085, N85051, AC006440, AC011451, AL023876, and AC006039.
HHPSM40	1089	822904	1 - 2015	15 - 2029	BE090161, AC000127, AC000127, and AC000127.
HHPTF26	1090	857654	1 - 1021	15 - 1035	AW073879, AV729153, AV711992, AV758870, AW341978, AI962030, AA557911, AA284247, AW572721, AV760014, AI859438, AW265688, AI133083, AA916430, AW237905, BE242193, AA847499, BF845126, C15060, AW969831, AV754716, AA828834, AV761107, AI890324, R92658, AV760941, AW753399, AA569206, AI278130, AA758244, AW328202, AI282479, AA618316, AA614163, AL037632, AI679871, BF887154, BG029528, AV697659, AC004883, AL049697, AC011449, AC009470, U67810, AC020904, AL022165, U63630, AL121601, AC018751, AJ011930, AF317635, AL163300, AJ277546, AP000553, Z81357, AC011470, AC004867, AL353807, AC006077, AF109907, Z85987, AC004491, AC009516, AC006120, AC010620, AL008718, AC005236, AL022237, Z85996, AL078581, AL355385, AL049748, AC005088, AC007225, Y18000, AL133328, AL009181, AF168787, AC004030, AC005529, AC027319, AL136980, AC007193,

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HHSAD31	1091	609874	1 - 444	15 - 458	AC018737, and AC018737.
HHSAE74	1092	839473	1 - 1596	15 - 1610	AW139132, AL038713, AI685116, AA846188, AI610326, BE646447, BG059728, AI887321, BF689260, AI147839, AI453790, AI818151, AI367384, AI858607, AW157413, AW193992, AI439415, AL133942, AI610776, AI499286, AI921101, AI051341, AV730063, BE176566, AI973178, AI749571, AA129986, AI924175, AA778304, AA767353, AI246569, AW168798, AU146974, AI925647, AI984510, AU145383, BE165748, AI559442, AI061131, AU144339, AI264673, N26540, AI369914,